

Page 01 of 90 to/à Page 30 of 90

Withheld pursuant to/removed as

s.21

Page 31 of 90 to/à Page 46 of 90

Withheld pursuant to/removed as

s.22

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s.21

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s.21

Page 52 of 90 to/à Page 56 of 90

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## EMBC Freedom Of Information EMBC:EX

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**From:** Geertsema, Marten FLNR:EX  
**Sent:** November 28, 2019 14:54  
**To:** MacRae, Heather EMBC:EX  
**Subject:** RE: RFQ-Peace River Geohazard Assessment 12-2019

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

s.13; s.16; s.17

Steep slopes must mean the slope between the settlement and the plateau on which Fort St John is situated.

---

From: MacRae, Heather EMBC:EX  
Sent: Thursday, November 28, 2019 2:42 PM  
To: Geertsema, Marten FLNR:EX  
Subject: RE: RFQ-Peace River Geohazard Assessment 12-2019

I'm just getting a few moments to really look at this finally.  
Hoping you can help me judge the most important pieces for us.  
s.13; s.16; s.17

And related to that, do you know what they mean by Steep Slopes area? Is that the slide itself with the East and West slides incorporated?  
Heather.

-----Original Message-----

From: Geertsema, Marten FLNR:EX  
Sent: Tuesday, November 26, 2019 18:42  
To: Procurement; MacRae, Heather EMBC:EX  
Cc: Shawn Dahlen; PRRD\_Internal; Trish Morgan  
Subject: RE: RFQ-Peace River Geohazard Assessment 12-2019

Looks ok to me - ideally lidar will be acquired in this week's clear weather window, before snowfall. That would add a lot to the analysis.

Marten

---

From: Procurement [procurement@prrd.bc.ca]  
Sent: Tuesday, November 26, 2019 6:31 PM  
To: Geertsema, Marten FLNR:EX; MacRae, Heather EMBC:EX  
Cc: Shawn Dahlen; PRRD\_Internal; Trish Morgan  
Subject: RE: RFQ-Peace River Geohazard Assessment 12-2019

Good evening,

It appears I missed sending you both a copy of the proposal being presented to the board for approval this week.

My apologies for the delay.

Leanne Filipovic | Procurement Officer

Direct: 250-784-4840 | Cell: 250-219-3265 | [leanne.filipovic@prrd.bc.ca](mailto:leanne.filipovic@prrd.bc.ca)

PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8 Toll Free: (24 hrs): 1-800-670-7773 | Office: 250-784-4840 | Fax: 250-784-3201 | [www.prrd.bc.ca](http://www.prrd.bc.ca)

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-----Original Message-----

From: Geertsema, Marten FLNR:EX <[Marten.Geertsema@gov.bc.ca](mailto:Marten.Geertsema@gov.bc.ca)>

Sent: Monday, November 4, 2019 7:04 PM

To: Trish Morgan <[Trish.Morgan@prrd.bc.ca](mailto:Trish.Morgan@prrd.bc.ca)>; MacRae, Heather EMBC:EX <[Heather.MacRae@gov.bc.ca](mailto:Heather.MacRae@gov.bc.ca)>

Cc: Leanne Filipovic <[leanne.filipovic@prrd.bc.ca](mailto:leanne.filipovic@prrd.bc.ca)>; Shawn Dahlen <[Shawn.Dahlen@prrd.bc.ca](mailto:Shawn.Dahlen@prrd.bc.ca)>;

PRRD\_Internal <[prrd.internal@prrd.bc.ca](mailto:prrd.internal@prrd.bc.ca)>

Subject: RE: RFQ-Peace River Geohazard Assessment 12-2019

CAUTION: This email originated from outside of the organization.

Looks ok to me Trish.

No further comments on Task 2 **s.13; s.16; s.17**

Looks good.

I do have some comments on Task 1 - Steep Slope Hazard Assessment. The proposal looks okay, but I feel some additional things could be done in addition to what is proposed.

What we don't have a good grasp on:

**s.13; s.16; s.17**



Marten

---

From: Trish Morgan [Trish.Morgan@prrd.bc.ca]  
Sent: Monday, November 04, 2019 3:52 PM  
To: MacRae, Heather EMBC:EX; Geertsema, Marten FLNR:EX  
Cc: Leanne Filipovic; Shawn Dahlen; PRRD\_Internal  
Subject: FW: RFQ-Peace River Geohazard Assessment 12-2019

Good afternoon Heather & Marten,

Attached is the 1 proposal we received for an assessment in the Old Fort Area. The proposal was based on the scope of work that you will find via the link below.

s.15; s.17

Marten & Heather, would you mind reviewing it. The Board wants to move ahead with it and partner with FLNRORD and EMBC, but needs to get moving on it. If it does not meet all of the province's requirements we have time over the next 2 weeks to go back to Tetra Tech and ask for pricing for an increased scope of work.

We look forward to hearing back from you.

[fb]<<https://www.facebook.com/Peace-River-Regional-District-Official-Page-205166546170683/timeline/>>Trish Morgan | General Manager of Community Services PEACE RIVER REGIONAL DISTRICT | Direct: 250-784-3218 | Cell: 250-219-3000 trish.morgan@prrd.bc.ca<mailto:trish.morgan@prrd.bc.ca> | [www.prrd.bc.ca](http://www.prrd.bc.ca)<<http://www.prrd.bc.ca>>  
[cid:image002.jpg@01D0FB92.DE012B80]<<http://www.prrd.bc.ca/>>  
[Image may contain: text]<<http://www.nebcalerts.ca/>>

From: Procurement <procurement@prrd.bc.ca>  
Sent: Monday, November 4, 2019 3:16 PM  
To: Trish Morgan <Trish.Morgan@prrd.bc.ca>  
Cc: Shawn Dahlen <Shawn.Dahlen@prrd.bc.ca>  
Subject: FW: RFQ-Peace River Geohazard Assessment 12-2019  
Importance: High

Good afternoon Trish,

See attached the one and only submission we received for the Peace River Geohazard Assessment 12-2019.

Vendor: Tetra Tech

Please review and provide input for a recommendation to the board. I'll book a meeting with you tomorrow morning to discuss.

Thanks!

[fb]<<https://www.facebook.com/Peace-River-Regional-District-Official-Page-205166546170683/timeline/>>Leanne Filipovic | Procurement Officer  
Direct: 250-784-4840 | Cell: 250-219-3265 | leanne.filipovic@prrd.bc.ca<mailto:leanne.filipovic@prrd.bc.ca>  
[cid:image002.jpg@01D0FB92.DE012B80]<<http://www.prrd.bc.ca/>>

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From: Korner, Patrick <Patrick.Korner@tetrattech.com<mailto:Patrick.Korner@tetrattech.com>>

Sent: Friday, November 1, 2019 1:23 PM

To: Procurement <[procurement@prrd.bc.ca](mailto:procurement@prrd.bc.ca)<mailto:procurement@prrd.bc.ca>>

Cc: Ekman, Nick <Nick.Ekman@tetrattech.com<mailto:Nick.Ekman@tetrattech.com>>; Loughlin, Camilla <[Camilla.Loughlin@tetrattech.com](mailto:Camilla.Loughlin@tetrattech.com)<mailto:Camilla.Loughlin@tetrattech.com>>

Subject: RE: RFQ-Peace River Geohazard Assessment 12-2019

CAUTION: This email originated from outside of the organization.

Good afternoon;

I am pleased to submit to you and the PRRD team the attached proposal in response to this opportunity. I believe you will find our approach to be thorough yet cost-effective, with a phased concept that manages costs and maximizes the benefit of previously-completed studies in the area.

Please do not hesitate to contact us should you have any questions.

Thanks again for the opportunity to be of service, and have a great weekend.

Best Regards,

Patrick

Patrick E Korner, P.Eng., PMP | Manager, Geotechnical Engineering Direct +1 (604) 608-8622 | Business +1 (604) 685-0275 | Mobile s.22



[Patrick.Korner@tetrattech.com](mailto:Patrick.Korner@tetrattech.com)<<mailto:Patrick.Korner@tetrattech.com>>

From: Procurement <[procurement@prrd.bc.ca](mailto:procurement@prrd.bc.ca)<mailto:procurement@prrd.bc.ca>>

Sent: Friday, October 11, 2019 4:33 PM

To: Korner, Patrick <Patrick.Korner@tetrattech.com<mailto:Patrick.Korner@tetrattech.com>>

Subject: RFQ-Peace River Geohazard Assessment 12-2019

 CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. 

Good afternoon Patrick,

Please see link to documents for the RFP required for the Peace River Valley – Geohazard Assessment as discussed yesterday.

s.15; s.17

Appreciate your assistance with this.

Thanks!

[fb]<[https://www.facebook.com/Peace-River-Regional-District-Official-Page-](https://www.facebook.com/Peace-River-Regional-District-Official-Page-205166546170683/timeline/)

205166546170683/timeline/>Leanne Filipovic | Procurement Officer

Direct: 250-784-4840 | Cell: 250-219-3265 | [leanne.filipovic@prrd.bc.ca](mailto:leanne.filipovic@prrd.bc.ca)<<mailto:leanne.filipovic@prrd.bc.ca>>

[cid:image002.jpg@01D0FB92.DE012B80]<<http://www.prrd.bc.ca/>>

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## EMBC Freedom Of Information EMBC:EX

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**From:** Korner, Patrick <Patrick.Korner@tetrattech.com>  
**Sent:** November 29, 2019 10:21  
**To:** Leanne Filipovic  
**Cc:** MacRae, Heather EMBC:EX; Tiffany Traverse; Geertsema, Marten FLNR:EX; Trish Morgan  
**Subject:** RE: Old Fort & Lidar

Thanks Leanne and Trish – we are excited to be involved in this work, and are looking forward to getting underway!

I will reach out to the Lidar providers and see about timelines for collection.

Thanks again,  
Patrick

**Patrick E Korner, P.Eng., PMP** | Manager, Geotechnical Engineering  
Direct +1 (604) 608-8622 | Business +1 (604) 685-0275 | Mobile s.22 | Patrick.Korner@tetrattech.com

---

**From:** Leanne Filipovic <leanne.filipovic@prrd.bc.ca>  
**Sent:** Friday, November 29, 2019 10:13 AM  
**To:** Korner, Patrick <Patrick.Korner@tetrattech.com>  
**Cc:** 'MacRae, Heather EMBC:EX' <Heather.MacRae@gov.bc.ca>; Tiffany Traverse <Tiffany.Traverse@prrd.bc.ca>; 'Geertsema, Marten FLNR:EX' <Marten.Geertsema@gov.bc.ca>; Trish Morgan <Trish.Morgan@prrd.bc.ca>  
**Subject:** RE: Old Fort & Lidar

**⚠ CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. **⚠**

Patrick,

I'll start working on the contract this afternoon, hope to send it your way early next week.

Thanks!

**Leanne Filipovic** | Procurement Officer  
Direct: 250-784-4840 | Cell: 250-219-3265 | [leanne.filipovic@prrd.bc.ca](mailto:leanne.filipovic@prrd.bc.ca)



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---

**From:** Trish Morgan <Trish.Morgan@prrd.bc.ca>  
**Sent:** Friday, November 29, 2019 9:00 AM  
**To:** 'Korner, Patrick' <Patrick.Korner@tetrattech.com>; 'Geertsema, Marten FLNR:EX' <Marten.Geertsema@gov.bc.ca>  
**Cc:** Leanne Filipovic <leanne.filipovic@prrd.bc.ca>; 'MacRae, Heather EMBC:EX' <Heather.MacRae@gov.bc.ca>; Tiffany

Traverse <Tiffany.Traverse@prrd.bc.ca>

**Subject:** Old Fort & Lidar

Good morning

Good new that the Board passed the motion to award the contract to Tetra Tech as follows ...

That the Regional Board award a contract to Tetra Tech, in the amount of \$192,250, to conduct a steep slope hazard assessment in the Old Fort Area and a hazard assessment of Buffioux Creek to determine future development requirements and examine whether emergency alerts and evacuation orders should remain in place; further,

That the Chair and Chief Administrative Officer are authorized to sign the agreement.

Contract to follow soon ... in the meantime can we get started on the Lidar survey?

Once the contract is signed, I will be the lead for this project, so if you have any questions feel free to contact me.

Patrick: what is you week like next week? We should touch base ...

thanks

**Trish Morgan** | General Manager of Community Services

Direct: **250-784-3218** | Cell: **250-219-3000** | [trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca)

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## EOC EXPENDITURE AUTHORIZATION FORM

Event: <b>Old Fort Landslide</b>	Date: <b>March 6, 2020</b>	EAF#: <b>77</b>
EMBC Task #: <b>193467</b>	Time: <b>1412</b>	

**Requesting Organization/Community:** Peace River Regional District

Authorized Representative:	Name: <b>Trish Morgan</b>	Location: <b>Dawson Creek</b>
Telephone: <b>250-784-3218</b>	Fax: <b>250-784-3201</b>	Email: <b>trish.morgan@prrd.bc.ca</b>

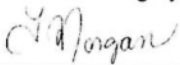
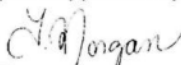
**Description of Expenditure:** (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

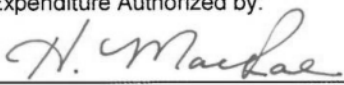
The Peace River Regional District has engaged the services of Tetra Tech to conduct an assessment of the Old Fort area currently under evacuation order in order to determine whether it is safe to remove the evacuation order. The Regional District has made a request to EMBC for funding support to complete this assessment and further to EMBC's letter of December 9, 2019, the Regional District is now submitting an EAF for shared funding of the project.

Deasan Holdings has agreed to share with the Regional District data gathered, as a result of their own assessment, for no cost.

Tetra Tech has been tasked with conducting a steep slope assessment and an assessment of the Buffioux Creek area. The steep slope assessment is most relevant to the question of whether the evacuation order could be removed in the future. The Regional District is requesting that EMBC fund 100% of the cost of the steep slope assessment of Crown land.

Amount Requested:	<b>\$99,250</b>	Expenditure Not to Exceed:	<b>\$115,000</b> <del>\$89,000</del>
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<b>EOC Approvals</b>	Approved for Processing by: Trish Morgan 	Expenditure Request Approved by: Trish Morgan 
	Position: EOC Director	Position: EOC Director (or designate)
	Date/Time: March 6, 2020 1412	Date/Time: March 6, 2020 1412

<b>PREOC Approvals</b>	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by: 
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:

<b>Distribution:</b> <input type="checkbox"/> EOC Director <input type="checkbox"/> EOC Operations Section <input type="checkbox"/> EOC Planning Section <input type="checkbox"/> EOC Logistics Section <input type="checkbox"/> EOC Finance & Admin Section <input type="checkbox"/> Other: _____	<input type="checkbox"/> PREOC Director <input type="checkbox"/> PREOC Operations Section <input type="checkbox"/> PREOC Planning Section <input type="checkbox"/> PREOC Logistics Section <input type="checkbox"/> PREOC Finance & Admin Section <input type="checkbox"/> Other: _____
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**Comments:**

As recommended by A/Executive Director Brendan Ralphs.

**EOC 530**

## EOC EXPENDITURE AUTHORIZATION FORM

<b>Event:</b> Old Fort Landslide	<b>Date:</b> March 6, 2020	<b>EAF#:</b> 77
<b>EMBC Task #:</b> 193467	<b>Time:</b> 1412	

**Requesting Organization/Community:** Peace River Regional District

<b>Authorized Representative:</b>	<b>Name:</b> Trish Morgan	<b>Location:</b> Dawson Creek
<b>Telephone:</b> 250-784-3218	<b>Fax:</b> 250-784-3201	<b>Email:</b> trish.morgan@prrd.bc.ca

**Description of Expenditure:** (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

The Peace River Regional District has engaged the services of Tetra Tech to conduct an assessment of the Old Fort area currently under evacuation order in order to determine whether it is safe to remove the evacuation order. The Regional District has made a request to EMBC for funding support to complete this assessment and further to EMBC's letter of December 9, 2019, the Regional District is now submitting an EAF for shared funding of the project.

Deasan Holdings has agreed to share with the Regional District data gathered, as a result of their own assessment, for no cost.

Tetra Tech has been tasked with conducting a steep slope assessment and an assessment of the Buffioux Creek area. The steep slope assessment is most relevant to the question of whether the evacuation order could be removed in the future. The Regional District is requesting that EMBC fund 100% of the cost of the steep slope assessment of Crown land.

<b>Amount Requested:</b>	\$99,250	<b>Expenditure Not to Exceed:</b>	\$115,000
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<b>EOC Approvals</b>	Approved for Processing by: Trish Morgan	Expenditure Request Approved by: Trish Morgan
	Position: EOC Director	Position: EOC Director (or designate)
	Date/Time: March 6, 2020 1412	Date/Time: March 6, 2020 1412

<b>PREOC Approvals</b>	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by:
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:

<b>Distribution:</b> <div style="display: flex; flex-direction: column; gap: 5px;"> <input type="checkbox"/> EOC Director                 <input type="checkbox"/> EOC Operations Section                 <input type="checkbox"/> EOC Planning Section                 <input type="checkbox"/> EOC Logistics Section                 <input type="checkbox"/> EOC Finance &amp; Admin Section                 <input type="checkbox"/> Other: _____             </div>	<div style="display: flex; flex-direction: column; gap: 5px;"> <input type="checkbox"/> PREOC Director                 <input type="checkbox"/> PREOC Operations Section                 <input type="checkbox"/> PREOC Planning Section                 <input type="checkbox"/> PREOC Logistics Section                 <input type="checkbox"/> PREOC Finance &amp; Admin Section                 <input type="checkbox"/> Other: _____             </div>
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**Comments:**

## EOC EXPENDITURE AUTHORIZATION FORM

Event: Old Fort Landslide 2020	Date: June 26, 2020	EAF#: 4
EMBC Task #: 211363	Time: 1510hrs	

**Requesting Organization/Community:** Peace River Regional District

Authorized Representative:	Name: Bryna Casey	Location: Dawson Creek
Telephone: 250-784-4841	Fax: 250-784-3201	Email: eoc.log1@prrd.bc.ca

**Description of Expenditure:** (include nature of goods and/or services being acquired/provided, desired outcome, location, date/time planned...)

The situation on site is complex and subject to change. Should increased movements be noted to the east, or substantial acceleration in existing movements be observed, then the potential for impact to residents can change, and change quickly. This EAF would provide for geotechnical on-site support for a period of 2 weeks on the Old Fort Landslide. This two person team of qualified geotechnical engineers would regularly traverse the site and make observations as to changed conditions/area of interest and provide updates on the same to the PRRD.

This team would be an ongoing presence and participation in the EMBC coordination calls, would provide senior principal review of work and review data acquired and shared by others. Will lead meetings to update and inform the PRRD throughout the time in question.

Tetra Tech would provide the above on a T&M basis. Assuming the field team would consist of one senior and one more junior engineer, and using current rates, an estimated limit of \$50,000 would apply. 8 hour days in the field have been assumed – depending on day, some may be longer, however hourly rates would remain the same in those instances. A 50% premium would apply to weekends.

Hourly rates would be:

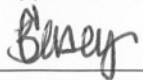

O Junior engineer: \$148/hr.

O Senior engineer: \$245/hr.

O Principal Specialist / Senior Review: \$295/hr.

- Travel / hotel / vehicle / etc. disbursements would be marked up by the same percentage currently being used on our ongoing work.

Amount Requested:	\$50,000	Expenditure Not to Exceed:	\$60,000
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<b>EOC Approvals</b>	Approved for Processing by: Bryna Casey	Expenditure Request Approved by:
		
	Position: Logistics	Position: EOC Director (or designate)
	Date/Time:	Date/Time: 20200626 1532

<b>PREOC Approvals</b>	Approved for Processing by: <input type="checkbox"/> Not Approved	Expenditure Authorized by:
	Position: Operations Section Chief	Position: PREOC Director (or designate)
	Date/Time:	Date/Time:



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**Distribution:**

- ☐ EOC Director
- ☐ EOC Operations Section
- ☐ EOC Planning Section
- ☐ EOC Logistics Section
- ☐ EOC Finance & Admin Section
- ☐ Other: \_\_\_\_\_

- ☐ PREOC Director
- ☐ PREOC Operations Section
- ☐ PREOC Planning Section
- ☐ PREOC Logistics Section
- ☐ PREOC Finance & Admin Section
- ☐ Other: \_\_\_\_\_

**Comments:**

# Resource Request

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\*Red Label: indicates a required field.

## Priority

Not Reported

## \*Status

Red--Approved Request

## EMBC Resource Request Number (Do not change)

Res-163108-563-062620

## EMBC Task Number

211363

## Requestor Number

EAF 004

## Resource Identifier (PECC Use Only)

## WHO IS MAKING THE REQUEST?

### \*Requesting Organization

Peace River Regional District

### \*Requestor's Contact Info

Bryna Casey 250-784-4841

### Related Event/Incident/Activity

I - PRRD - Old Fort Land Slide

### Display All resource requests related to

I - PRRD - Old Fort Land Slide

## WHAT IS BEING REQUESTED?

### Resource Category

Emergency Management

### \*Quantity

1

### \*Resource Type/Kind

Geo Tech Specialist

### Qty Unit Of Measure

each

### When Needed

### Mission

The situation on site is complex and subject to change. Should increased movements be noted to the east, or substantial acceleration in existing movements be observed, then the potential for impact to residents can change, and change quickly. This EAF would provide for geotechnical on-site support for a period of 2 weeks on the Old Fort Landslide. This two person team of qualified geotechnical engineers would regularly traverse the site and make observations as to changed conditions/area of interest and provide updates on the same to the PRRD.

This team would be an ongoing presence and participation in the EMBC coordination calls, would provide senior principal review of work and review data acquired and shared by others. Will lead meetings to update and inform the PRRD throughout the time in question. Tetra Tech would provide the above on a T&M basis. Assuming the field team would consist of one senior and one more junior engineer, and using current rates, an estimated limit of \$50,000 would apply. 8 hour days in the field have been assumed - depending on day, some may be longer, however hourly rates would remain the same in those instances. A 50% premium would apply to weekends.

Hourly rates would be:

O Junior engineer: \$148/hr.

O Senior engineer: \$245/hr.

O Principal Specialist / Senior Review: \$295/hr.

Travel / hotel / vehicle / etc. disbursements would be marked up by the same percentage currently being used on our ongoing work.

### Other

### Resource must come with

**SPECIAL INSTRUCTIONS (E.G. SAFETY MESSAGE, INGRESS/EGRESS ROUTES, ETC.)****Special Instructions****FORWARD REQUEST TO:**

- ☒ **Uncheck to send Targeted Alert ONLY to the individual selected. When checked a Targeted Alert is sent to all users whose Personal Profile matches the Org/Location and Position selected.**

**Individual:****Organization/Location:**

NEA PREOC

**Position:**

Operational Area Coordinator - Bravo

**Agency:**

NEA - North East PREOC

**Vendor****Summary of actions taken**

06/30/2020 at 10:53 PDT katower-NEA PREOC

Send to PRRD, track, and send to finance.

06/29/2020 at 17:44 PDT dalexand-NEA PREOC

Approved based on the need to ensure public safety by updating PRRD and Old Fort residents on slope movement and changes. They will also work with the PRRD regarding recommendations for changes to alerts and orders.

06/29/2020 at 16:31 PDT swilliam-NEA PREOC

The EOC feels it is important that they have daily walkthroughs because MOTI will not be providing information to the residents, they will only be doing assessments on the road. Tetra-tech will be looking at ongoing impacts to the residences and the community and giving advice on orders, alerts and safety.

06/29/2020 at 08:35 PDT dalexand-NEA PREOC

Please ask the Regional District if a daily walk is necessary. Could they schedule 4 times a week and additional walks there has been rainfall.

06/27/2020 at 10:46 PDT katower-NEA PREOC

Sent to director for consideration

06/26/2020 at 16:38 PDT swilliam-NEA PREOC

Forwarded to Ops Chief for review

**Estimated Resource Cost**

60000.00

**Request History**

06/29/2020 at 17:50 PDT - Debbie Alexander at NEA PREOC as Director changed status to Red--Approved Request

06/27/2020 at 10:47 PDT - Kaylee Tower at NEA PREOC as Operations Section Chief changed status to Purple--Pending Approval

06/26/2020 at 16:38 PDT - Shannon Williams at NEA PREOC as Operational Area Coordinator - Bravo changed status to Black--New Request

**NOTIFICATION****Send Notification** N**Message****Individuals**

**Groups****Other Email Addresses****GEO LOCATION & MAPPING**

<b>Site Name</b>	<b>Site Type</b> Emergency Operations Centre (EOC)
<b>Street Address</b>	<b>Apt or Lot No.:</b>
<b>City</b>	<b>State</b> <b>Zip</b> BC
<b>Intersection - Street 1</b>	<b>Intersection - Street 2</b>
<b>*County/Municipality</b> Peace River Regional District	<b>Geographic Area</b> (Region, District, Campus, etc). NEA - North East PREOC Region
<b>Country</b> Canada	
<b>Additional Location Information</b>	

**Show on Map? Geo Located By Latitude Longitude**  
No

**ATTACHMENTS**

EAF 004 Res-163108-563-062620  
 Tetrattech Geotechnical  
 Engineers.pdf

**ACCESS CONTROL**

You are not authorized to edit this section!!!

**DATA SHARING**

You are not authorized to edit this section!!!

Document Created by: swilliam on 06/26/2020 at 16:38 PDT LastModified by: katower on 06/30/2020 at 10:56 PDT  
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## Johnston, Cole EMBC:EX

---

**To:** eoc.log1@prrd.bc.ca  
**Cc:** EMBC NEA PREOC Operations 1 EMBC:EX  
**Attachments:** EAF 004 Res-163108-563-062620 Tetrattech Geotechnical Engineers APPROVED.pdf

Good morning Bryna,

As mentioned on the coordination call this morning, EAF 004 for geotechnical support has been approved.

Best regards,

**Shannon Williams**  
**Operational Area Coordinator Bravo I** Northeast PREOC  
Emergency Management BC  
3235 Westwood Drive  
Prince George, BC CANADA V2N 1S4

Ph: 250-614-6322 Fax: 250-612-4171  
24 Hour Emergency Reporting: 1-800-663-3456

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## Johnston, Cole EMBC:EX

---

**From:** Alexander, Debbie A EMBC:EX  
**Sent:** August 12, 2020 13:04  
**To:** Fiala, Tony EMBC:EX  
**Cc:** Tower, Kaylee EMBC:EX; MacRae, Heather EMBC:EX  
**Subject:** FW: EAF #77 - Old Fort Assessment

Hi Tony,

Kaylee wasn't in the loop regarding Old Fort prior to this recent event. Should we wait until Heather is back in the office and ask her for the background and status on it or ask Stan?

I will confirm with Trish that the comment she heard on the call with the minister, an EAF had been approved for \$60,000 for a study, was likely EAF 004 and not EAF 77 which is attached.

Debbie

**Debbie Alexander** | Regional Manager  
Emergency Management BC  
3235 Westwood Drive  
Prince George, B.C. CANADA V2N 1S4

Ph: 250-612-4172  
24 Hour Emergency Reporting: 1 800 663-3456

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*Sent from the traditional territory of the Lheidli T'enneh.*

---

**From:** Alexander, Debbie A EMBC:EX  
**Sent:** August 12, 2020 11:55 AM  
**To:** Tower, Kaylee EMBC:EX <Kaylee.Tower@gov.bc.ca>  
**Cc:** MacRae, Heather EMBC:EX <Heather.MacRae@gov.bc.ca>  
**Subject:** FW: EAF #77 - Old Fort Assessment

Hi Kaylee,

Trish Morgan called asking if we knew the status of this EAF. I'm thinking this would have been sent to Stan for review. Do you know if there was any decision or follow up?

Trish mentioned she had been on a call with the Minister a number of weeks ago when an announcement was made that \$60,000 was approved for a study. Trish had talked to Heather asking if possibly that was in reference to the attached EAF. I pulled EAF 004 from this event which was approved for \$60,000 for something different but that may have been what was announced as approved on the call.

I told Trish we would look into it and get back to her.

Thanks,

**Debbie Alexander** | Regional Manager  
Emergency Management BC  
3235 Westwood Drive  
Prince George, B.C. CANADA V2N 1S4

Ph: 250-612-4172  
24 Hour Emergency Reporting: 1 800 663-3456

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*Sent from the traditional territory of the Lheidli T'enneh.*

---

**From:** Trish Morgan <[Trish.Morgan@prrd.bc.ca](mailto:Trish.Morgan@prrd.bc.ca)>  
**Sent:** August 12, 2020 11:16 AM  
**To:** Alexander, Debbie A EMBC:EX <[Debbie.Alexander@gov.bc.ca](mailto:Debbie.Alexander@gov.bc.ca)>  
**Subject:** FW: EAF #77 - Old Fort Assessment

**[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.**

**Trish Morgan** | General Manager of Community Services  
PEACE RIVER REGIONAL DISTRICT | Direct: **250-784-3218** | Cell: **250-219-3000**  
[trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca) | [www.prrd.bc.ca](http://www.prrd.bc.ca)



PEACE RIVER REGIONAL DISTRICT



---

**From:** Trish Morgan  
**Sent:** Friday, March 6, 2020 4:23 PM  
**To:** 'MacRae, Heather EMBC:EX' <[Heather.MacRae@gov.bc.ca](mailto:Heather.MacRae@gov.bc.ca)>  
**Cc:** PRRD\_Internal <[prrd.internal@prrd.bc.ca](mailto:prrd.internal@prrd.bc.ca)>  
**Subject:** EAF #77 - Old Fort Assessment

Hi Heather,

Please see the attached EAF and associated documents.

thanks

**Trish Morgan** | General Manager of Community Services  
Direct: **250-784-3218** | Cell: **250-219-3000** | [trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca)  
PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8  
Toll Free: (24 hrs): **1-800-670-7773** | Office: **250-784-3200** | Fax: **250-784-3201** | [www.prrd.bc.ca](http://www.prrd.bc.ca)



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## Johnston, Cole EMBC:EX

---

**From:** Trish Morgan <Trish.Morgan@prrd.bc.ca>  
**Sent:** August 12, 2020 14:06  
**To:** Alexander, Debbie A EMBC:EX  
**Cc:** Tower, Kaylee EMBC:EX; MacRae, Heather EMBC:EX  
**Subject:** RE: EAF #77 - Old Fort Assessment

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No problem ... thanks for checking into it ☺

Trish Morgan | General Manager of Community Services  
PEACE RIVER REGIONAL DISTRICT | Direct: 250-784-3218 | Cell: 250-219-3000  
[trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca) | [www.prrd.bc.ca](http://www.prrd.bc.ca)



PEACE RIVER REGIONAL DISTRICT



---

**From:** Alexander, Debbie A EMBC:EX <Debbie.Alexander@gov.bc.ca>  
**Sent:** Wednesday, August 12, 2020 2:01 PM  
**To:** Trish Morgan <Trish.Morgan@prrd.bc.ca>  
**Cc:** Tower, Kaylee EMBC:EX <Kaylee.Tower@gov.bc.ca>; MacRae, Heather EMBC:EX <Heather.MacRae@gov.bc.ca>  
**Subject:** RE: EAF #77 - Old Fort Assessment

**CAUTION: This email originated from outside of the organization.**

Hi Trish,

I asked Tony about this EAF and he believes Heather sent it EMBC HQ for discussion. Tony recommends we wait for Heather to return from vacation to find out what discussions were had around this request and the status.

I am not sure if the \$60,000 EAF approval you heard announced on the call with the ministers was the approval of EAF 4 for \$60,000 or if it related back to EAF 77.

I'm sorry I don't have more information to provide you Trish. Let me know if you have any questions.

Thanks,

Debbie Alexander | Regional Manager  
Emergency Management BC

3235 Westwood Drive  
Prince George, B.C. CANADA V2N 1S4

Ph: 250-612-4172  
24 Hour Emergency Reporting: 1 800 663-3456

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*Sent from the traditional territory of the Lheidli T'enneh.*

---

**From:** Trish Morgan <[Trish.Morgan@prrd.bc.ca](mailto:Trish.Morgan@prrd.bc.ca)>  
**Sent:** August 12, 2020 11:16 AM  
**To:** Alexander, Debbie A EMBC:EX <[Debbie.Alexander@gov.bc.ca](mailto:Debbie.Alexander@gov.bc.ca)>  
**Subject:** FW: EAF #77 - Old Fort Assessment

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Trish Morgan | General Manager of Community Services  
PEACE RIVER REGIONAL DISTRICT | Direct: **250-784-3218** | Cell: **250-219-3000**  
[trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca) | [www.prrd.bc.ca](http://www.prrd.bc.ca)



PEACE RIVER REGIONAL DISTRICT



---

**From:** Trish Morgan  
**Sent:** Friday, March 6, 2020 4:23 PM  
**To:** 'MacRae, Heather EMBC:EX' <[Heather.MacRae@gov.bc.ca](mailto:Heather.MacRae@gov.bc.ca)>  
**Cc:** PRRD\_Internal <[prrd.internal@prrd.bc.ca](mailto:prrd.internal@prrd.bc.ca)>  
**Subject:** EAF #77 - Old Fort Assessment

Hi Heather,

Please see the attached EAF and associated documents.

thanks

Trish Morgan | General Manager of Community Services  
Direct: **250-784-3218** | Cell: **250-219-3000** | [trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca)  
PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8  
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## EMBC Freedom Of Information EMBC:EX

---

**From:** Fiala, Tony EMBC:EX  
**Sent:** August 26, 2020 8:38  
**To:** MacRae, Heather EMBC:EX  
**Subject:** FW: Estimates Note - Old Fort  
**Attachments:** RE: RFQ-Peace River Geohazard Assessment 12-2019

This is one I have after the estimates note.

---

**From:** MacRae, Heather EMBC:EX <Heather.MacRae@gov.bc.ca>  
**Sent:** June 10, 2020 7:41 AM  
**To:** Fiala, Tony EMBC:EX <Tony.Fiala@gov.bc.ca>  
**Subject:** RE: Estimates Note - Old Fort

Here is an email train I had with Trish and Marten back in December about the scope of work. Trish originally asked him and he said the information looked good, and I asked about Scope for EMBC and he agreed that only the West side work was appropriate to our Order and Alert concerns; which is the \$99,000 amount that was put in by PRRD through EAF.

**Heather MacRae** | EMBC Regional Manager, Northeast  
Ph: 250 612-4172 Cell: 250-961-5919  
24 Hr Emergency Reporting: 1 800 663-3456

---

**From:** Fiala, Tony EMBC:EX <Tony.Fiala@gov.bc.ca>  
**Sent:** June 9, 2020 6:19 PM  
**To:** MacRae, Heather EMBC:EX <Heather.MacRae@gov.bc.ca>  
**Subject:** Fwd: Estimates Note - Old Fort

Have we run this by Martin and what are some his recommendations. Does he think the scope is right?

Thanks

Sent from my iPhone

Begin forwarded message:

**From:** "Bates, Stan EMBC:EX" <Stan.Bates@gov.bc.ca>  
**Date:** June 9, 2020 at 6:02:14 PM PDT  
**To:** "Fiala, Tony EMBC:EX" <Tony.Fiala@gov.bc.ca>  
**Subject:** RE: Estimates Note - Old Fort

I think we need to move forward on the assessment. Does Martin Geertsma believe another study is warranted? Does MOTI have an opinion? \$100K seems high so if warranted, I would have to ask whether the scope of work is appropriate.

**Stan Bates** | Executive Director, Response

Emergency Management BC  
Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

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---

**From:** Fiala, Tony EMBC:EX <[Tony.Fiala@gov.bc.ca](mailto:Tony.Fiala@gov.bc.ca)>  
**Sent:** June 9, 2020 12:35 PM  
**To:** Bates, Stan EMBC:EX <[Stan.Bates@gov.bc.ca](mailto:Stan.Bates@gov.bc.ca)>  
**Subject:** RE: Estimates Note - Old Fort

Hi Stan

Sorry I almost forgot about this one.

This is the info from PRRD:

- Old Fort Assessment is behind schedule due to COVID. Site visits and homeowner interactions were not feasible this spring.
- Expected finish date had been the end of June, now it is potentially for September. Trish will know more at the end of this week after a conf with the company Friday.
- EAF was received for \$99,250 for the part of the assessment specific to the Orders & Alert area. This is the entire amount for that area. Overall cost of the assessment which included slope stability from FSJ sewage area was around \$200,000
- We had originally proposed up to \$50,00 for our part of the work.

Heather's suggestion is a 75/25% split where we take the majority of the cost but still includes some responsibility to their orders and alerts in their hands, which I think is a good idea but not sure politically we can do.

Cheers  
Tony

---

**From:** Bates, Stan EMBC:EX <[Stan.Bates@gov.bc.ca](mailto:Stan.Bates@gov.bc.ca)>  
**Sent:** May 31, 2020 8:54 PM  
**To:** Fiala, Tony EMBC:EX <[Tony.Fiala@gov.bc.ca](mailto:Tony.Fiala@gov.bc.ca)>  
**Subject:** Estimates Note - Old Fort

Tony,

I have updated the Estimates note from last year and ask that you review. I particularly need the latest on where we stand with the Geotech assessments and status of order and alert.

Stan

**Stan Bates** | Executive Director, Response

Emergency Management BC  
Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

Ph: 250-952-4895 Cell: 778-676-2063 Fax: 250-952-4872  
24 Hour Emergency: 1-800-663-3456

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## EMBC Freedom Of Information EMBC:EX

---

**From:** Bates, Stan EMBC:EX  
**Sent:** August 26, 2020 17:49  
**To:** MacRae, Heather EMBC:EX  
**Cc:** Fiala, Tony EMBC:EX; Alexander, Debbie A EMBC:EX  
**Subject:** RE: Old Fort study dollars

Heather,

Recent correspondence on this issue has indeed focussed on the \$60K authorized for the reactivation of the slide. I guess the question is whether any of that work affects the previous request that was submitted before the slide reactivated? The issue of geotechnical assessments has to be looked at in total in this light and further input from MOTI and Martin would be appropriate.

Stan

**Stan Bates** | Executive Director, Regional Operations

Emergency Management BC  
Block A – Suite 200, 2261 Keating Cross Rd  
Saanichton, BC CANADA V8M 2A5

Ph: 250-952-4895 Cell: 778-676-2063 Fax: 250-952-4872  
24 Hour Emergency: 1-800-663-3456

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---

**From:** Fiala, Tony EMBC:EX <Tony.Fiala@gov.bc.ca>  
**Sent:** August 26, 2020 12:51 PM  
**To:** Bates, Stan EMBC:EX <Stan.Bates@gov.bc.ca>  
**Cc:** MacRae, Heather EMBC:EX <Heather.MacRae@gov.bc.ca>  
**Subject:** FW: Old Fort study dollars

Hi Stan

As discussed, these two asks from the PRRD were two different assessments. Heather did the background checks and has included the work and recommendations from Martin. As I will be away for a few days Heather can fill you in or answers questions related to the two different tasks and the differing scopes. How the two assessments differ I'm not sure and how much more study is required based on recent slide and the scope is what needs to be discussed with PRRD.

---

**From:** MacRae, Heather EMBC:EX <Heather.MacRae@gov.bc.ca>  
**Sent:** August 25, 2020 4:37 PM  
**To:** Fiala, Tony EMBC:EX <Tony.Fiala@gov.bc.ca>

**Cc:** Tower, Kaylee EMBC:EX <Kaylee.Tower@gov.bc.ca>

**Subject:** Old Fort study dollars

Here's a breakdown of what we have on our plate for Old Fort.

1. On March 6, 2020, PRRD submitted EAF 77 (Task 193467) for \$99,000 for TetraTech to do an assessment of the Old Fort Slide. Marten was consulted and said the scope was appropriate and the PRRD was only asking for funding for the portion that was related to the Alerts and Orders, not to the portion related to the area directly above the homes which was looking at covenants and land use planning. Here's an email with information that went up in June. I thought I had one I had written in March or April but cleaning my emails, I erased my sent items.  
<< Message: FW: Estimates Note - Old Fort >>
2. On June 26, 2020 PRRD submitted EAF (Task 211363) for \$60,000 for TetraTech to do onsite hazard assessment for the Old Fort subdivision and residents over a 2 week period and liaise with MOTI technicians about the stability and risks in the whole landslide area as MOTI was only focused on the landslide path and roadway effects.

The Minister mentioned on a CAO/Elected Officials call that \$60,000 for a study of the Old Fort Landslide was approved but I believe it was in reference to the onsite monitoring during the event, not the original ask of \$99,000 for the long term EA/O removal study.

If we can swing it, I'd suggest a 75/25 split

**Heather MacRae** | EMBC Regional Manager, Northeast

[Emergency Management BC](#)

3235 Westwood Drive

Prince George, BC V2N 1S4

Ph: 250 612-4172 Cell: 250-961-5919

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## Johnston, Cole EMBC:EX

---

**From:** Trish Morgan <Trish.Morgan@prrd.bc.ca>  
**Sent:** September 16, 2020 15:43  
**To:** MacRae, Heather EMBC:EX  
**Cc:** David Sturgeon; Shawn Dahlen; PRRD\_Internal; Tower, Kaylee EMBC:EX; Fiala, Tony EMBC:EX  
**Subject:** Old Fort Geotechnical Study & Response Costs

**Importance:** High

**[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.**

Hi Heather

As EMBC knows on November 4, 2019 the Peace River Regional District (PRRD) made a request to the Province for funding “to conduct additional geotechnical work to review the current risk to the properties in Old Fort.” On December 9, 2019 the PRRD received a response from Deputy Minister Lori Halls that Tony Fiala, and his team at the Prince George Regional Office, would be able to assist us “in making a formal request for further geotechnical assessments through an Expenditure Authorization Form.”

In January 2020 the PRRD hired Tetra Tech to complete a study of the Old Fort area to conduct:

- 1) Steep Slope Hazard Assessment – Completion of an assessment of the north slopes of the Peace River Valley within the Regional District, south of the City of Fort St. John (within the vicinity of the Old Fort slide area)). The intent of the assessment is to define and identify steep slopes within the project area as well as identify possible areas that are at risk of landslides or unstable slopes that were not associated with the 2018 landslide with consideration of existing evacuation alerts and orders in the area.
- 2) Buffioux Creek Flood and Debris Flood Hazard – Development of a comprehensive understanding of the risks that may result from flooding, including debris flood hazards, in and around the Buffioux Creek area.



The intent of the study is for the PRRD to gather further information regarding possible geohazards in the vicinity of the Old Fort slide area (primarily on Crown land). The information gathered will be used to help gain knowledge of geohazards and associated risks as well as to support the PRRD with establishment of development guidelines and permits for the identified high-risk areas (e.g., requirements for future development).

After a number of discussions with EMBC staff an expense authorization form (EAF) was submitted in March 2020 for up to \$99,250 (EAF #77 Task #193467) to share in the cost of the wider geotechnical study budgeted at \$192,250 (plus tax). The Peace River Regional District Board of Directors feel strongly that the Province should be contributing to this study as the hazard affecting private property originates on Crown land and the subdivision was approved by the Province. No response to this EAF has yet been received.

On June 18, 2020 the Old Fort Landslide reactivated. While MOTI was conducting assessments of the road and their right of way and FLNRORD was conducting assessments of the Crown land, Tetra Tech was needed to represent the Regional District and provide advice with respect to the safety of those on private property. As noted in the July 26, 2019 email to MLA Davies “a local authority is at all times responsible for the direction and control of the local authority’s emergency response” and without Tetra Tech on contract for the **response**, the PRRD would not be able to reasonably assess the safety of the private properties and determine whether additional evacuation alerts or orders should have been issued or whether any of the other actions taken during the response were safe to do so (e.g. extending a water line down the trail south of the Fort St John lagoons).

Therefore as part of the 2020 response, EAF #004 (Task #211363 for up to \$60,000) was submitted to hire Tetra Tech to conduct the following work:

- Provide technical geotechnical advice related specifically to the current response
- Participate in EMBC coordination calls and liaise with other geotechnical professionals
- Review data and work provided by other agencies (e.g. MOTI’s change detection data, LiDAR, GPS hub data)
- Conduct field assessments to determine safety of private property
- Review information related to pre-existing evacuation alerts and orders in the context of the new landslide and make recommendations on those alerts and orders and any additions needed for public safety

While the response work has given additional insight into the ongoing situation, it has resulted in both cost savings for LiDAR acquisition as well as **additional costs** for:

- Processing additional sets of LiDAR (obtained from MoTI not EMBC) and orthophoto data collected in June /July 2020
- Updates and revisions to the hazard mapping completed prior to the June landslide
- Ongoing discussions with the Regional District and provincial agencies (e.g., localized cracking, MOTI piezometer data)
- Additional project management time due to the extended project timeline

As a result of utilizing LiDAR from MoTI, the overall cost of the wider geotechnical study is currently estimated to see a minimal cost savings of \$20,000 and at this time EMBC has still not contributed to this study. Whether the PRRD had initiated the study in January 2020 or not, the response costs (not study costs) of approximately \$60,000 for Tetra Tech would have remained the same.

Further, on August 18, 2020 the Ministry of Public Safety and Solicitor General noted in their letter to Old Fort residents that “In support of the PRRD, EMBC is ... funding for geotechnical studies...”. On August 19, 2020 the Ministry of Energy, Mines and Petroleum Resources letter to MP Bob Zimmer, that “In addition to ongoing monitoring ... Emergency Management BC has provided funding to the PRRD to conduct a wider geotechnical study that will complement the work of MoTI to ensure that residents remain safe ...”. However, as you can see from the information above EMBC has not yet contributed to the “wider geotechnical study” at this time – EMBC has only contributed funding to the 2020 landslide response.

We look forward to your quick response.

**Trish Morgan** | General Manager of Community Services

Direct: **250-784-3218** | Cell: **250-219-3000** | [trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca)

PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8

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## EMBC Freedom Of Information EMBC:EX

---

**From:** Fiala, Tony EMBC:EX  
**Sent:** September 29, 2020 13:44  
**To:** MacRae, Heather EMBC:EX  
**Subject:** Fwd: Old Fort Geotechnical Study & Response Costs

Sent from my iPhone

Begin forwarded message:

**From:** "Ralfs, Brendan R EMBC:EX" <Brendan.Ralfs@gov.bc.ca>  
**Date:** September 29, 2020 at 11:07:02 AM PDT  
**To:** "Fiala, Tony EMBC:EX" <Tony.Fiala@gov.bc.ca>  
**Subject:** RE: Old Fort Geotechnical Study & Response Costs

Tony,

Thank you to Heather and anyone else on your team for their excellent work bringing this all together. I approve your recommendation to support the conclusion of the assessment by the PRRD ( at a forecast cost of \$89,000 ).

**Brendan Ralfs** | A/Executive Director, Regional Operations

[Emergency Management BC](#)

Ph: 250-419-8598 Cell: 778-676-2061

24 Hour Emergency: 1-800-663-3456

---

**From:** Fiala, Tony EMBC:EX <Tony.Fiala@gov.bc.ca>  
**Sent:** September 23, 2020 8:59 AM  
**To:** Ralfs, Brendan R EMBC:EX <Brendan.Ralfs@gov.bc.ca>  
**Subject:** FW: Old Fort Geotechnical Study & Response Costs  
**Importance:** High

Hi Brendan, here is all the background to where we are now. Heather has done a great job of putting this all together and correspondence to date. As there has been some promises made and confusion, including the by the minister and a recommendation by Martin (FLNROD) who has reviewed this file and has been the lead on this project since the beginning in 2018, I would recommend that we support the \$89,000 in support of the PRRD for the conclusion of the assessment. This in turn will hopefully move to evaluating and removing orders and alerts. I would like to get your review and recommendations on next steps in this case.

Heather and I can be available for discussion.

Thanks

**Tony Fiala** | Senior Regional Manager

[Emergency Management BC](#)

Phone: 250-612-4175

24 Hour Emergency Reporting: 1 800 663-3456

*Acknowledging the traditional territory of the Lheidli T'enneh, whose land I am grateful to work, live and grow on.*

---

**From:** MacRae, Heather EMBC:EX <[Heather.MacRae@gov.bc.ca](mailto:Heather.MacRae@gov.bc.ca)>  
**Sent:** September 22, 2020 2:56 PM  
**To:** Fiala, Tony EMBC:EX <[Tony.Fiala@gov.bc.ca](mailto:Tony.Fiala@gov.bc.ca)>

**Subject:** FW: Old Fort Geotechnical Study & Response Costs

**Importance:** High

I asked Trish to outline the Response vs. Assessment EAF's that the PRRD had asked for which she had done well below. She mentioned a letter while I was talking to her that I had not seen, so that is attached here as well.

History wise, we had suggested to the PRRD that we may be able to support the project up to \$50,000 based on some other work that had happened around the province. They submitted for \$99,000 as a portion of the assessment they felt the province should cover that was not associated to OCP changes, covenants or land use decisions the board may need to make about the subdivision. Full study is \$200,000.

We asked them to review the first assessment, in light of work that happened during response and the only amount that did change was no longer needing a LIDAR flight. So cost reduction of \$20,000. PRRD mentioned sharing that cost saving and us paying 10,000 less to the original assessment and they would use 10,000 off the overall cost of \$200,000. That would leave us at paying \$89,000. That is a possibility or doing a 75/25 % split where they would still hold a some financial responsibility for removing Orders and Alerts.

**Heather MacRae** | EMBC Regional Manager, Northeast

Ph: 250 612-4172 Cell: 250-961-5919

24 Hr Emergency Reporting: 1 800 663-3456

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**From:** Trish Morgan <[Trish.Morgan@prrd.bc.ca](mailto:Trish.Morgan@prrd.bc.ca)>

**Sent:** September 16, 2020 3:43 PM

**To:** MacRae, Heather EMBC:EX <[Heather.MacRae@gov.bc.ca](mailto:Heather.MacRae@gov.bc.ca)>

**Cc:** David Sturgeon <[david.sturgeon@prrd.bc.ca](mailto:david.sturgeon@prrd.bc.ca)>; Shawn Dahlen <[Shawn.Dahlen@prrd.bc.ca](mailto:Shawn.Dahlen@prrd.bc.ca)>; PRRD\_Internal <[prrd.internal@prrd.bc.ca](mailto:prrd.internal@prrd.bc.ca)>; Tower, Kaylee EMBC:EX <[Kaylee.Tower@gov.bc.ca](mailto:Kaylee.Tower@gov.bc.ca)>; Fiala, Tony EMBC:EX <[Tony.Fiala@gov.bc.ca](mailto:Tony.Fiala@gov.bc.ca)>

**Subject:** Old Fort Geotechnical Study & Response Costs

**Importance:** High

**[EXTERNAL] This email came from an external source. Only open attachments or links that you are expecting from a known sender.**

Hi Heather

As EMBC knows on November 4, 2019 the Peace River Regional District (PRRD) made a request to the Province for funding "to conduct additional geotechnical work to review the current risk to the properties in Old Fort." On December 9, 2019 the PRRD received a response from Deputy Minister Lori Halls that Tony Fiala, and his team at the Prince George Regional Office, would be able to assist us "in making a formal request for further geotechnical assessments through an Expenditure Authorization Form."

In January 2020 the PRRD hired Tetra Tech to complete a study of the Old Fort area to conduct:

- 1) Steep Slope Hazard Assessment – Completion of an assessment of the north slopes of the Peace River Valley within the Regional District, south of the City of Fort St. John (within the vicinity of the Old Fort slide area)). The intent of the assessment is to define and identify steep slopes within the project area as well as identify possible areas that are at risk of landslides or unstable slopes that were not associated with the 2018 landslide with consideration of existing evacuation alerts and orders in the area.
- 2) Buffioux Creek Flood and Debris Flood Hazard – Development of a comprehensive understanding of the risks that may result from flooding, including debris flood hazards, in and around the Buffioux Creek area.

The intent of the study is for the PRRD to gather further information regarding possible geohazards in the vicinity of the Old Fort slide area (primarily on Crown land). The information gathered will be used to help gain knowledge of geohazards and associated risks as well as to support the PRRD with establishment of development guidelines and permits for the identified high-risk areas (e.g., requirements for future development).

After a number of discussions with EMBC staff an expense authorization form (EAF) was submitted in March 2020 for up to \$99,250 (EAF #77 Task #193467) to share in the cost of the wider geotechnical study budgeted at \$192,250 (plus tax). The Peace River Regional District Board of Directors feel strongly that the Province should be contributing to this study as the hazard affecting private property originates on Crown land and the subdivision was approved by the Province. No response to this EAF has yet been received.

On June 18, 2020 the Old Fort Landslide reactivated. While MOTI was conducting assessments of the road and their right of way and FLNRORD was conducting assessments of the Crown land, Tetra Tech was needed to represent the Regional District and provide advice with respect to the safety of those on private property. As noted in the July 26, 2019 email to MLA Davies “a local authority is at all times responsible for the direction and control of the local authority’s emergency response” and without Tetra Tech on contract for the **response**, the PRRD would not be able to reasonably assess the safety of the private properties and determine whether additional evacuation alerts or orders should have been issued or whether any of the other actions taken during the response were safe to do so (e.g. extending a water line down the trail south of the Fort St John lagoons).

Therefore as part of the 2020 response, EAF #004 (Task #211363 for up to \$60,000) was submitted to hire Tetra Tech to conduct the following work:

- Provide technical geotechnical advice related specifically to the current response
- Participate in EMBC coordination calls and liaise with other geotechnical professionals
- Review data and work provided by other agencies (e.g. MOTI’s change detection data, LiDAR, GPS hub data)
- Conduct field assessments to determine safety of private property
- Review information related to pre-existing evacuation alerts and orders in the context of the new landslide and make recommendations on those alerts and orders and any additions needed for public safety

While the response work has given additional insight into the ongoing situation, it has resulted in both cost savings for LiDAR acquisition as well as **additional costs** for:

- Processing additional sets of LiDAR (obtained from MoTI not EMBC) and orthophoto data collected in June /July 2020
- Updates and revisions to the hazard mapping completed prior to the June landslide
- Ongoing discussions with the Regional District and provincial agencies (e.g., localized cracking, MOTI piezometer data)
- Additional project management time due to the extended project timeline

As a result of utilizing LiDAR from MoTI, the overall cost of the wider geotechnical study is currently estimated to see a minimal cost savings of \$20,000 and at this time EMBC has still not contributed to this study. Whether the PRRD had initiated the study in January 2020 or not, the response costs (not study costs) of approximately \$60,000 for Tetra Tech would have remained the same.

Further, on August 18, 2020 the Ministry of Public Safety and Solicitor General noted in their letter to Old Fort residents that “In support of the PRRD, EMBC is ... funding for geotechnical studies...”. On August 19, 2020 the Ministry of Energy, Mines and Petroleum Resources letter to MP Bob Zimmer, that “In addition to ongoing monitoring ... Emergency Management BC has provided funding to the PRRD to conduct a wider geotechnical study that will complement the work of MoTI to ensure that residents remain safe ...”. However, as you can see from the information above EMBC has not yet contributed to the “wider geotechnical study” at this time – EMBC has only contributed funding to the 2020 landslide response.

We look forward to your quick response.

Trish Morgan | General Manager of Community Services  
Direct: **250-784-3218** | Cell: **250-219-3000** | [trish.morgan@prrd.bc.ca](mailto:trish.morgan@prrd.bc.ca)



PEACE RIVER REGIONAL DISTRICT | Box 810, 1981 Alaska Highway Avenue, Dawson Creek, BC V1G 4H8  
Toll Free: (24 hrs): **1-800-670-7773** | Office: **250-784-3200** | Fax: **250-784-3201** | [www.prrd.bc.ca](http://www.prrd.bc.ca)



PEACE RIVER REGIONAL DISTRICT



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AP5240

Page : 1

Date : Dec 10, 2020

Time : 10:08 am

TETRA TECH CANADA INC  
14940 123 AVENUE  
EDMONTON AB T5V 1B4  
email : [Payments@tetrattech.com](mailto:Payments@tetrattech.com)

Supplier Code : TETRA001

A deposit request for \$ 52,301.91 has been sent to your bank account on 06-Oct-2020.

This payment is for the following invoices:

Date	Invoice Number	Invoice Description	EFT Ref. #	Voucher Number	Amount
16-Sep-2020	60674157	EOC TASK#211363,EAF 4,OLD FORT SLIDE GE	01441-0029	238	52,301.91

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Fax : (250) 784-3201



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Page : 1

Date : Dec 10, 2020

Time : 10:08 am

TETRA TECH CANADA INC  
14940 123 AVENUE  
EDMONTON AB T5V 1B4  
email : [Payments@tetrattech.com](mailto:Payments@tetrattech.com)

Supplier Code : TETRA001

A deposit request for \$ **38,682.79** has been sent to your bank account on 10-Nov-2020.

This payment is for the following invoices:

Date	Invoice Number	Invoice Description	EFT Ref. #	Voucher Number	Amount
20-Oct-2020	60678580	TASK 211363 EAF 4 Old Fort	01456-0029	276	9,650.29
21-Oct-2020	60678920	PEACE RIVER VALLEY GEOHAZARD ASSESS.	01456-0029	276	29,032.50