

APPENDIX

H

ARCHEOLOGY



De: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>
Envoyé: 25 janvier 2022 13:42
À: Guérin, Pascal
Objet: [WARNING: UNSCANNABLE EXTRACTION FAILED] RE: Services achéologiques/Archeological services
Pièces jointes: Consultants list -January 25, 2022.pdf; Peatland 6 Access B.kmz; Peatland 6 Access A.kmz

Hi Pascal,

Portions of the new road that fall within 80m of a watercourse are assessed as having elevated archaeological potential and will required an Archaeological Impact Assessment. I have attached the approximate areas of elevated potential for your review.

An Archaeological Impact Assessment will, at minimum, consist of a preliminary field survey. If this survey confirms that the area being assessed has archaeological potential, additional sub-surface testing may be recommended. This work will determine if archaeological resources are present. The Archaeological Impact Assessment must be completed by an archaeologist qualified to work in New Brunswick. I have attached a list of consultants who you can contact to discuss the project. They can provide quotes.

Anne

From: Guérin, Pascal <Pascal.Guerin@wsp.com>
Sent: January 25, 2022 11:51 AM
To: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>
Subject: [WARNING: UNSCANNABLE EXTRACTION FAILED] RE: Services achéologiques/Archeological services

Hi Anne!

Sorry for the delay in my answer. We were waiting for additional information from our client. In your last email, you highlighted to me the area of the access road with an elevated archaeological potential that would need an archaeological impact assessment if there is any ground disturbance to build or upgrade the road. In our project, there should be no such disturbance for the vast majority of the zone you highlighted (see picture below). However, a new section of road will need to be built (in yellow on the picture below) to bypass a private property.

The new road will cause a ground disturbance in the elevated archaeological potential area. Consequently, I would like to confirm if an Archaeological Impact Assessment is necessary, what it entails, when and by whom it can be done and how much it costs.



I am thankful for all the help you provided so far!

Cheers,



Pascal Guérin, M. Sc., Biologie
Professionnel en environnement – Écologie
Environnement

T+ 1 581-814-5964
M+ 1 418 264-6494

WSP Canada Inc.
1135, boulevard Lebourgneuf
Québec (Québec)
G2K 0M5 CANADA

wsp.com

From: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>

Sent: 14 janvier 2022 14:43

To: Guérin, Pascal <Pascal.Guerin@wsp.com>

Cc: Quinty, Francois <Francois.Quinty@wsp.com>

Subject: [WARNING: UNSCANNABLE EXTRACTION FAILED] RE: Services achéologiques/Archeological services

Hi Pascal,

I have based my assessment on the files provided earlier and I have attached a kmz file identifying the approximate area of the west road that is assessed as having elevated archaeological potential. If there will be any ground disturbance to build or upgrade the road, an Archaeological Impact Assessment will be required. If you will be using existing roads in this area then no further archaeological assessment will be required.

If the road alignment is different and closer to what is represented in Map 1, please let me know.

Anne

From: Guérin, Pascal <Pascal.Guerin@wsp.com>

Sent: January 12, 2022 6:29 PM

To: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>

Cc: Quinty, Francois <Francois.Quinty@wsp.com>

Subject: RE: Services achéologiques/Archeological services

Good evening Anne,

In answer to your previous email, the east road will be left untouched (sorry for not making it clearer). Access to Peatland No. 6 will be conducted only through the western access road. The proposed access road starts westward off the Weldfield-Collette Road over a distance of about 3,683 m on Crownland, as indicated on the attached map 1. About 2,098 m of the total 3,683 m long access roadway will utilize the existing, already cleared logging road corridor. The remaining 1,585 m of this roadway will need to be constructed. Map 1 also present the locations result of a wetland delineation survey completed in the area (map 2).

The road will be constructed in compliance with the guidelines for roads and watercourse crossings. Road alignment will ensure safety to users. It will respect guidelines as to fill slope angles, cut slope angles and clearing widths and meeting places. The constructed road will have a 20 m right of way (ROW). One of the attached figure shows a cross-section of the road that will be constructed or upgraded (map 2). The road will be approximately 10 m wide (including road top and road base, see map 2) and bordered by ditches about 5 m wide. The ditches will have a slope of 45 degrees, and off-take ditches will direct runoff water toward vegetated areas on both sides of the road to avoid direct flow to watercourses.

Trees and vegetation will be cleared. Merchantable timber will be offered to the local forestry contractor, and non-merchantable trees will be used for bog road construction. The road will cross one watercourse, Vandy Brook, in one of the constructed sections. The crossing will be a galvanized or concrete culvert of appropriate dimensions. It will be placed at the center of the watercourse about 15 cm below the gravel bed, on a 15-30 cm layer of gravel. Appropriate mitigation measures will be implemented to prevent erosion, and to prevent sediment from reaching watercourses.

I hope this answer your questions. If you need additional data, don't hesitate to ask and I will do my best to answer all your question!

Cheers,



Pascal Guérin, M. Sc., Biologie
Professionnel en environnement – Écologie
Environnement

T+ 1 581-814-5964
M+ 1 418 264-6494

WSP Canada Inc.
1135, boulevard Lebourgneuf
Québec (Québec)
G2K 0M5 CANADA

wsp.com

From: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>

Sent: 12 janvier 2022 11:39

To: Guérin, Pascal <Pascal.Guerin@wsp.com>

Subject: RE: Services archéologiques/Archeological services

Good Morning Pascal,

Archaeology and Heritage Branch has reviewed the project location against the Archaeological Predictive Model. There are no registered archaeological sites located in the vicinity of the project. Peatland 6 is composed of wetland and there are presently no requirements for archaeological assessment in these areas.

The western extent of P6 West Access Road is located within 80-m of a watercourse and the eastern extent of P6 East Access Road is located on a paleoshoreline (i.e. ancient/Pleistocene shoreline). These areas are assessed as having elevated archaeological potential. While these are existing roads, depending on the nature and extent of ground disturbance required to upgrade the access roads, an Archaeological Impact Assessment may be required. Can you please provide additional information on the scope of this work?

As for all projects, there is there is a possibility of identifying archaeological resources during construction/extraction. The EIA should include a protocol in the event of an accidental discovery of archaeological resources including work stoppage in the vicinity of the find and contacting Archaeology and Heritage Branch at (506) 453-3115 to determine possible mitigation and next steps.

Anne

From: Guérin, Pascal <Pascal.Guerin@wsp.com>

Sent: January 11, 2022 9:30 AM

To: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>

Cc: Quinty, Francois <Francois.Quinty@wsp.com>

Subject: [WARNING: UNSCANNABLE EXTRACTION FAILED] RE: Services archéologiques/Archeological services

Good morning Mme Hamilton,

As discussed earlier, I am sending you a map of the project (pdf). This concerns a peat extraction development project, so all harvest fields, donor sites and the staging area shown on the map will be impacted by the project. Most of the access road (in black on the map) already exists but it will need to be upgraded. With these informations, can you tell us if an Archaeological Impact Assessment will be required?

Thank you for your time and have a good day!



Pascal Guérin, M. Sc., Biologie
Professionnel en environnement – Écologie
Environnement

T+ 1 581-814-5964
M+ 1 418 264-6494

WSP Canada Inc.
1135, boulevard Lebourgneuf
Québec (Québec)
G2K 0M5 CANADA

wsp.com

From: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>
Sent: 10 janvier 2022 13:08
To: Guérin, Pascal <Pascal.Guerin@wsp.com>
Subject: RE: Services archéologiques/Archeological services

Hi Pascal,

The archaeological predictive model provides the locations of registered archaeological sites as well as identifying areas assessed as having elevated archaeological potential. If any of these areas will be impacted by your project, an Archaeological Impact Assessment will be required. Our office will require additional information about the project to determine if this assessment will be required for your project. Specifically, WSP will have to provide a project footprint identifying areas that will be subject to ground disturbance (e.g. excavation, access roads, grubbing, etc.).

Thanks,

Anne

From: Guérin, Pascal <Pascal.Guerin@wsp.com>
Sent: January 7, 2022 9:18 AM
To: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>
Subject: RE: Services archéologiques/Archeological services

Hi Mrs Hamilton,

I am writing this email to you in response to your previous email (see below). Before proceeding with the payment, I would like to make sure to know what the predictive model entails and if it is mandatory in the case of our project. As I said, the only data we need is the location of the archeological sites. Is it a part of the predictive model you talk about, or can we obtain it without having to pay for the predictive model? According to the "[Guide to Environmental Impact Assessment in New Brunswick](#)", we need to list "list all federally, provincially, or locally recognized heritage and/or built heritage resources/areas (e.g., historic sites, historic buildings or structures, national or provincial parks, fossil site, archaeological sites, etc.) in relation to the proposed undertaking and adjacent lands." In that case, are the information in the previous email enough?

There is also the following point to take into consideration:

- In areas where archaeological resources may be present, the Department of Tourism, Heritage and Culture might require that a [Heritage Resource Impact Assessment](#) (HRIA) be conducted by a licensed professional archaeologist in accordance with guidelines established by the Archaeological Services Branch. The results must be submitted to the Archaeological Services Branch for review. Archaeological Services may identify measures to minimize the potential to impact any important archaeological resources identified as a result of the HRIA. If the archaeological resource is extensive or is of exceptional import, Archaeological Services may recommend either site-specific mitigation measures or avoidance of the area completely. The proponent is therefore encouraged to conduct the HRIA as early as possible in the planning phase of the undertaking;

From what I understand from your previous email, there are no archeological sites present on our site, but they are located within a 5 km radius. If so, does the project still require a HRIA?

Sorry for the delay in my answer and I wish you the best for this new year 2022!



Pascal Guérin, M. Sc., Biologie
Professionnel en environnement – Écologie
Environnement

T+ 1 581-814-5964
M+ 1 418 264-6494

WSP Canada Inc.
1135, boulevard Lebourgneuf
Québec (Québec)
G2K 0M5 CANADA

wsp.com

From: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>

Sent: 8 décembre 2021 13:28

To: Guérin, Pascal <Pascal.Guerin@wsp.com>

Subject: RE: Services archéologiques/Archeological services

Hi Pascal,

Apologies for the delay in responding. The estimated cost of the predictive model for your project + a 5km buffer is \$750 before taxes. There are two historic plane wrecks and a cemetery within 5 km of your project and no other archaeological sites.

Anne

From: Guérin, Pascal <Pascal.Guerin@wsp.com>

Sent: December 6, 2021 11:30 AM

To: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>

Subject: RE: Services archéologiques/Archeological services

Hi Mrs Hamilton!

I am resending you the previous email in case it was lost or forgotten. When we talked to the phone, I learned there was a fee for such a demand (depending on the area of the study site), so I wondered if the delay was linked to that. As of now, I don't know yet the cost of such a demand (see previous mails)...

Have a good day!

Pascal Guérin, M. Sc., Biologie
Professionnel en environnement – Écologie
Environnement



T+ 1 418 623-2254

M+ 1 418 264-6494

1135, boulevard Lebourgneuf
Québec (Québec)
G2K 0M5 CANADA

wsp.com

From: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>
Sent: 26 novembre 2021 15:07
To: Guérin, Pascal <Pascal.Guerin@wsp.com>
Subject: RE: Services achéologiques/Archeological services

Thanks Pascal. Message received.

Anne



Anne Hamilton
(506) 238-0438 anne.hamilton@gnb.ca
Provincial Archaeologist (acting) Archéologue Provinciale (par intérim)
Heritage and Archaeological Services Branch Direction de patrimoine et services archéologique
Tourism, Heritage and Culture Tourisme, Patrimoine et Culture
[Archaeology - Tourism, Heritage and Culture \(gnb.ca\)](#) [Archéologie - Tourisme, Patrimoine et Culture \(gnb.ca\)](#)



From: Guérin, Pascal <Pascal.Guerin@wsp.com>
Sent: November 26, 2021 3:56 PM
To: Hamilton, Anne (THC/TPC) <Anne.Hamilton@gnb.ca>
Subject: Services achéologiques/Archeological services

ATTENTION! External email / courriel externe.

Message in english follows below

Bonjour,

Mon nom est Pascal Guérin et je suis professionnel en environnement pour la firme de génie-conseil WSP. Nous sommes en cours de réalisation d'une étude d'impact pour un projet d'exploitation d'une tourbière à des fins horticoles au Nouveau-Brunswick. Dans le cadre de l'étude d'impact, nous aimerions obtenir de l'information sur la présence connue ou potentielle de sites archéologiques sur le lieu du projet. S'il y a lieu, nous aurions besoin des informations (ex : coordonnées) relatives à ces sites.

Voici les coordonnées GPS du centre de la zone d'étude :

Latitude : 46°51'37.50"N

Longitude : 65°20'16.63"O

Le point central du site à l'étude a également été ajouté en pièce jointe

Idéalement, nous aimerions obtenir l'information pour un rayon de 5 km.

Merci et bonne fin de journée à vous!

Cordialement,

Greeting,

My name is Pascal Guérin and I am an environmental professional for the firm WSP. We are carrying out an environmental impact assessment (EIE) for a peatland development project in New Brunswick. As part of the EIE, we would like to obtain information on the known or potential presence of archaeological sites at the project site. We would only need the coordinates of the potential archeological sites close to our study site.

Here are the GPS coordinates of the center of the study area:

Latitude: 46 ° 51'37.50 "N

Longitude: 65 ° 20'16.63 "W

The location of the study site has also been added as an attachment

Ideally, we would like to get the information in a radius of 5 km.

Best wishes,

Pascal Guérin, M. Sc., Biologie
Professionnel en environnement – Écologie
Environnement



T+ 1 418 623-2254

M+ 1 418 264-6494

1135, boulevard Lebourgneuf
Québec (Québec)

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies. You are receiving this communication because you are listed as a current WSP contact. Should you have any questions regarding WSP's electronic communications policy, please consult our Anti-Spam Commitment at www.wsp.com/cas. For any concern or if you believe you should not be receiving this message, please forward this message to cascompliance@wsp.com so that we can promptly address your request. Note that not all messages sent by WSP qualify as commercial electronic messages.

AVIS : Ce message, incluant tout fichier l'accompagnant (« le message »), peut contenir des renseignements ou de l'information privilégiés, confidentiels, propriétaires ou à divulgation restreinte en vertu de la loi. Ce message est destiné à l'usage exclusif du/des destinataire(s) voulu(s). Toute utilisation non permise, divulgation, lecture, reproduction, modification, diffusion ou distribution est interdite. Si vous avez reçu ce message par erreur, ou que vous n'êtes pas un destinataire autorisé ou voulu, veuillez en aviser l'expéditeur immédiatement et détruire le message et toute copie électronique ou imprimée. Vous recevez cette communication car vous faites partie des contacts de WSP. Si vous avez des questions concernant la politique de communications électroniques de WSP, veuillez consulter notre Engagement anti-pourriel au www.wsp.com/lcap. Pour toute question ou si vous croyez que vous ne devriez pas recevoir ce message, prière de le transférer au conformitelcap@wsp.com afin que nous puissions rapidement traiter votre demande. Notez que ce ne sont pas tous les messages transmis par WSP qui constituent des messages électroniques commerciaux.

-LAEmI-hhHzdJzBITWfa4Hgs7pbKl

ARCHAEOLOGY CONSULTANTS
CONSULTANTS EN ARCHÉOLOGIE

PATRICIA M. ALLEN, MA, RPA
Archaeological Heritage Specialist
SAW-WHET Consulting
628 Hwy #730
Durham Bridge, NB E6C 1N9
Tel: (506) 458-5354
Email: paallen@nbnet.nb.ca
Note: This consultant provides background research only

GRANT R. AYLESWORTH, PhD, RPA
Managing Director
Stratis Consulting Inc.
115-527 Dundonald Street
Fredericton, NB E3B 1X5
Tel: (506) 999-0151
Email: grant.aylesworth@stratis.consulting

CHRISTOPHER R. BLAIR, BA
Archaeologist/Historic Resources Consultant
Stantec Consulting Ltd.
845 Prospect Street
Fredericton, NB E3B 2T7
Tel: (506) 457-3200
Fax: (506) 452-7652
Email: Chris.blair@stantec.com

HENRY CARY, PhD, RPA
Archaeologist/Built Heritage Specialist
Golder Associates Ltd.
33 Alderney Drive, Suite 460
Dartmouth, NS B2Y 2N4
Tel: (506) 540-1494
Fax: (902) 466-1669
Email: henry.cary@golder.com

KYLE G. CIGIOTTI, BA
Managing Partner, Archaeologist
CULTURAL RESOURCE MANAGEMENT GROUP LIMITED
Ten Mile House
1519 Bedford Highway
Bedford, Nova Scotia
B4A 1E3
Tel: (902) 453-4972
Fax: (902) 446-3066
Email: kcigiolotti@crmgroup.ca

APRIL MACINTYRE, M.A., RPA
Davis MacIntyre & Associates
President / Principal Archaeologist
109 John Stewart Drive
Dartmouth, NS
B2W 4J7
902-402-4441
Email: april@davismacintyre.com

SARA BEANLANDS, MA
Boreas Heritage Consulting Inc.
Senior Archaeologist, Historian
46 Arlington Ave.
Halifax, Nova Scotia
B3N 2A1
902-483-7999
sbeanlands@boreasheritage.ca

DARCY J. DIGNAM, MA, RPA
Senior Archaeologist
wood.
495 Prospect Street, Suite 1
Fredericton, NB E3B 9M4
Tel: (506) 458-1000
Fax: (506) 450-0829
Email: darcy.dignam@woodsplc.com

KEVIN LEONARD, PhD, RPA
President
Archeoconsulting Inc.
21 Lucille Street
Shediac Bridge, NB
E4R 1N3
Cell: (506) 530-5057
Email: archaeoconsulting@gmail.com

CHELSEA COLWELL PASCH
Colbr Consulting Inc.
Director, Senior Archaeologist
17 All's Well Lane
Maquapit Lake, New Brunswick
E4B 0A6
(506) 261-4511
chelsea.pasch@colbr.ca

WILLIAM MCGRATH, M.IDST
Archaeologist
Terra Obscura Archaeology
527 Dundonald St, Suite 210
Fredericton, New Brunswick
E3B 1X5
506-261-3573
will.a.mcgrath@gmail.com

DISCLAIMER : THIS LIST IS PROVIDED FOR INFORMATION PURPOSES ONLY. INCLUSION ON THIS LIST DOES NOT AUTOMATICALLY GUARANTEE THAT AN ARCHAEOLOGICAL FIELD RESEARCH PERMIT (AFRP) WILL BE ISSUED FOR ANY HERITAGE RESOURCE IMPACT ASSESSMENT (HRIA) PROJECT. ALL ARCHAEOLOGICAL CONSULTANTS ARE EXPECTED TO DEMONSTRATE ON THE APPLICATION FOR AN AFRP THAT THEY MEET THE MINIMUM QUALIFICATION REQUIREMENTS LISTED UNDER THE GUIDELINES FOR THE ISSUANCE OF AN AFRP, AND THAT THEY HAVE ACCESS TO THE RESOURCES NECESSARY TO BRING THE HRIA PROJECT TO ITS COMPLETION. THE MINISTER MAY REFUSE TO GRANT AN AFRP WHERE, IN THE OPINION OF THE MINISTER, THE APPLICANT'S PROPOSED RESEARCH DESIGN, RESOURCES, CREDENTIALS, AND/OR EXPERIENCE DO NOT MATCH THE COMPLEXITY OF THE PROJECT FOR WHICH THE AFRP IS SOUGHT.

AVERTISSEMENT : CETTE LISTE EST PRÉPARÉE POUR FIN D'INFORMATION SEULEMENT. LE FAIT D'ÊTRE INCLUS SUR CETTE LISTE NE CONSTITUE PAS UNE GARANTIE QU'UN PERMIS DE TRAVAUX ARCHÉOLOGIQUES SUR LE TERRAIN (PERMS) SERA ÉMIS POUR UN PROJET D'ÉTUDE D'IMPACT SUR LES RESSOURCES PATRIMONIALES. TOUT ARCHÉOLOGUE DOIT DÉMONSTRER SUR LEUR DEMANDE POUR UN PERMIS QU'IL OU QU'ELLE RENCONTRE LES EXIGENCES EN MATIÈRE DE FORMATION ET D'EXPÉRIENCE PROFESSIONNELLE DEMANDÉES DANS LES LIGNES DIRECTRICES POUR L'OBTENTION D'UN PERMIS, ET QU'IL OU QU'ELLE A ACCÈS AUX RESSOURCES NÉCESSAIRES POUR MENER UN PROJET À TERME. LE MINISTRE PEUT REFUSER D'ÉMETTRE UN PERMIS S'IL EST DANS L'OPINION QUE LE PLAN DE RECHERCHE, LES RESSOURCES, LES QUALIFICATIONS ET/OU L'EXPÉRIENCE DU DEMANDEUR OU DE LA DEMANDEUSE NE SONT PAS À LA HAUTEUR DU PROJET POUR LEQUEL LA DEMANDE EST FAITE.