APPENDIX B

Correspondence and Comments Received

Appendix B1 - Stakeholder Correspondence & Comments Received

Appendix B2 – Part II Order Request & Correspondence

Appendix B1 - Stakeholder Correspondence & Comments Received

From: Kleinboeck, Tom [mailto:Tom.Kleinboeck@dfo-mpo.gc.ca]
Sent: Tuesday, January 19, 2010 3:40 PM
To: kbemben@enl-tbay.com
Subject: Waste Water Treatment plant upgrade-red rock

Kathy

We received your letter concerning the phase 1 study of the township's preliminary study design. Once Phase 2 identifies the detailed design and construction sequence DFO may become involved. This would only be if the option for the proposed new outfall etc. would extend into Lake Superior and/or there would be some work in water. Once the project is at that stage feel free to call.

Cheers

Tom Kleinboeck
Fish Habitat Biologist
Northern Ontario District / District du nord de l'Ontario
Ontario-Great Lakes Area / Secteur de l'Ontario et des Grands Lacs
Central & Arctic Region / Région du Centre et de l'Arctique
Fisheries and Oceans Canada / Pêches et Océans Canada
Government of Canada / Gouvernement du Canada
(807) 346-8214
Fax/télécopieur: 807-346-8545
425-100 Main St.
Thunder Bay, ON
P7B 6R9
tom.kleinboeck@dfo-mpo.gc.ca

Melissa Price

From: Don Boswell [Don.Boswell@ainc-inac.gc.ca]
Sent: January 21, 2010 11:15 AM
To: kbemben@enl-tbay.com
Cc: Ralph Vachon
Subject: Public Comment Invited - Municipal Class EnvironmentalAssessment - Red Rock Waste Water Treatment Plant Upgrades

I am writing in response to your letter addressed to Janet Townson of January 15, 2010, inquiring about claims in the above noted area.

In determining your duty to consult, you may wish to contact the First Nations in the vicinity of your area of interest to advise them of your intentions. To do this you may:

find the Reserves in your area of interest by consulting a map of the region such as the Province of Ontario Ministry of Aboriginal Affairs online map at http://www.aboriginalaffairs.gov.on.ca/english/services/firstnations.asp;
then
search for the First Nations located on those Reserves by using the INAC Search by Reserve site at http://pse5-esd5.ainc-inac.gc.ca/fnp/Main/Search/SearchRV.aspx?lang=eng.

To determine the First Nations in your area of interest who have submitted claims please consult the Reporting Centre on Specific Claims at http://pse4-esd4.ainc-inac.gc.ca/SCBRI/Main/ReportingCentre/External/ExternalReporting.aspx?lang=eng.

It should be noted that the reports available on the INAC website are updated regularly and therefore, you may want to check this site often for updates. In accordance with legislative requirements, confidential information has not been disclosed.

Please rest assured that it is the policy of the Government of Canada as expressed in The Specific Claims Policy and Process Guide that:

in any settlement of specific native claims the government will take third party interests into account. As a general rule, the government will not accept any settlement which will lead to third parties being dispossessed.

We can only speak directly to claims filed under the Specific Claims Policy in the Province of Ontario. We cannot make any comments regarding potential or future claims, or claims filed under other departmental policies. This includes claims under Canadas Comprehensive Claims Policy or legal action by a First Nation against the Crown. You may wish to contact the Assessment and Historical Research Directorate at (819) 994-6453, the Consultation and Accommodation Unit at (613) 944-9313 and Litigation Management and Resolution Branch at (819) 934-2185 directly for more information.

You may also wish to visit
http://www.ainc-inac.gc.ca/ai/mr/is/acp/acp-eng.asp on the INAC website for information regarding the Federal Action Plan on Aboriginal Consultation and Accommodation.

To the best of our knowledge, the information we have provided you is current and up-to-date. However, this information may not be exhaustive with regard to your needs and you may wish to consider seeking information from other government and private sources (including Aboriginal groups). In addition, please note that Canada does not act as a representative for any Aboriginal group for the purpose of any claim or the purpose of consultation.

I hope this information will be of assistance to you. I trust that this satisfactorily addresses your concerns.

Sincerely,

Don Boswell
Senior Claims Analyst
Ontario Research Team
Specific Claims Branch

Dan Currie

From: Dan Currie [dcurrie@enl-tbay.com]
Sent: January 21, 2010 11:42
To: 'jwhite@watertek.org'
Subject: Red Rock WWTP

Hi Jeff,

As per our discussion this morning, could please send a map showing the proposed location of the Snow fluent EVC process. I understand from the literature that was provided an are of about 40 acres is required, including buffers etc.

As part of the EA process this proposal is being evaluated.

Thanks,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Dan Currie

From: jeff white [jwhite@watertek.org]
Sent: January 21, 2010 15:27
To: Dan Currie
Subject: Re: Red Rock WWTP
Attachments: 2.RED ROCK Proposal.doc; 3.RED ROCK PROCESS.doc; 4.Red Rock Photos.pdf; 5.Red Rock Schematic.pdf; 7.EVC Process.pdf; 8.RIF Performance.Pdf; 9.EVC Performance-actual.Pdf; 11.Westport Irrigation 1998 .pdf; 17.RED ROCK ABLATION Curve 09.pdf; 34.Tower Spray Dimensions.Pdf; 33.Tower Summer Spraying.jpg; 37.EVC Prefab Mechanical Complete 08.pdf; 56.Professional Assessment -1.Pdf; 58.MOE Comment on EVC.Pdf

no.4 are the photos of layout.
These attachments are only part of the submission details There are many technical files , if you want them.
I can Zip them up and send or do you have them now.
Jeff White
----- Original Message -----
From: "Dan Currie" <dcurrie@enl-tbay.com>
To: <jwhite@watertek.org>
Sent: Thursday, January 21, 2010 11:42 AM
Subject: Red Rock WWTP

>
> Hi Jeff,
>
> As per our discussion this morning, could please send a map showing
> the proposed location of the Snow fluent EVC process. I understand
> from the literature that was provided an are of about 40 acres is
> required, including buffers etc.
>
> As part of the EA process this proposal is being evaluated.
>
> Thanks,
>
> Dan
> _____
>
> Dan Currie, C.E.T.
> Engineering Northwest Ltd.
> 301-200 S. Syndicate Ave.
> Thunder Bay, ON
> P7E 1C9
> Phone: 807-623-3449 ext. 251
> Fax: 807-623-5925
> Email: dcurrie@enl-tbay.com
> _____
>
>

From: Dan Currie
To: Dorion Resident #1
Cc: "Harold Makela"; "Melissa Price"
Subject: RE: Red Rock
Date: January 22, 2010 9:44:21 AM

Dorion Resident #1

The Municipal Class Environmental Assessment Document referenced in the add can be found at the following link:

http://www.municipalengineers.on.ca/classea/manual/manualSimple.asp?docsetID=A523A5DA-6B61-4130-9DF4-3CB77514411B

If you have any other questions at this time or require additional information, please call me at 807-623-3449 x.251.

Regards,

Dan

From: Dorion Resident #1
Sent: January 21, 2010 21:26
To: dcurrie@enl-tbay.com
Subject: Red Rock

Hello Dan

I would like to view the Municipal Class Environmental Assessment for the Red Rock project. Is this document available electronically?
If so, can you please forward it to this address and if not please advise me how it can be viewed. I sent this message to Kathy as the advertisement instructed but I got a message that she is on vacation. I hope you can help.

Thanks,

Dorion Resident #1

Melissa Price

From: Aaron Nicholson [aaron.nicholson@lakeheadu.ca]
Sent: January 21, 2010 2:45 PM
To: kbemben@enl-tbay.com
Subject: Nipigon Bay Public Advisory Committee

Hi Kathy,

I was sent your invitation for public comment on the waste water treatment upgrade for the township of Red Rock. I am currently coordinating the Public Advisory Committee for the Nipigon Bay Area of Concern and we are very interested in being involved in this process. I'd like to invite you to our next meeting on February 8th, 7-9 pm, at the Nipigon Town Office, to present any additional information on this project and answer questions. This group represents stakeholders from both of local industry and community groups and can provide you valuable public input. Let me know if you are able to attend. Thanks.

Aaron.

--
Aaron A. Nicholson
Remedial Action Plan Coordinator
Nipigon Bay & Thunder Bay
RC-3000, Lakehead University
955 Oliver Road, Thunder Bay, ON
Canada P7B 5E1

Ph: 807-343-8514

Indian and Northern Affairs Canada
Affaires indiennes et du Nord Canada

www.inac.gc.ca
www.ainc.gc.ca

Your file - Votre référence
27 JAN. 2010
Our file - Notre référence

Kathy Bemben
Project Manager
Engineering Northwest Ltd.
200 S. Syndicate ave., Suite 301
THUNDER BAY, ONTARIO P7E 1C9

Dear Ms. Bemben:

Re: Municipal Class Environmental Assessment; Red Rock Water Treatment Plant Upgrades

I am writing in response to your letter of January 15, 2010 addressed to Jonathan Allen inquiring about any claims that may affect the subject property. I regret that we were unable to respond earlier.

We can advise that our inventory includes active litigation cases in the vicinity of this property. They are: *Chief Roy Michano and Councillor Arthur H. Fisher suing on their own behalf and on behalf of all other members of the Ojibway Nation who are also members of Begetikong Anishnabe First Nation (also known as The Ojibways of Pic River) v. Attorney General of Canada, Her Majesty the Queen in Right of Canada, Town of Marathon, Ontario Court of Justice, filed in Ottawa, court file # 02/03; and*

Chief and Council of Red Rock First Nation on behalf of Red Rock First Nation Band of Indians v. Attorney General of Canada, Her Majesty the Queen in Right of Ontario, Ontario Superior Court of Justice, filed in Thunder Bay, court file #2001-0673; and

Chief and Council of Whitesand First Nation on behalf of Whitesand First Nation Band of Indians v. Attorney General of Canada; Her Majesty the Queen in Right of Ontario, Ontario Superior Court of Justice, filed in Thunder Bay, court file #2001-0674; and

.../2

Canada

Jeff Desmoulin - Chief, Christopher Bananish, Randal Desmoulin, James Kwissiwa, Cheryl McWatch, Wayne Sabourin, Howard Twance, Geraldine Witzell - Councillors of Pic Mobert Band; Pic Mobert Band (Pic Mobert FN) v. Attorney General of Canada; Her Majesty the Queen in Right of Ontario, Ontario Superior Court of Justice, court file # CV-2006-142; and

Paul Gladu - Chief, Leona Clarke, Laura Aims - Councillors; Sand Point Band (Sand Point First Nation) v. Attorney General of Canada; Her Majesty the Queen in Right of Ontario, Superior Court of Justice, court file # CV-2006-141; and

The Chief and Council of the Whitesand First Nation, on behalf of the Whitesand First Nation band of Indians, and The Chief and Council of the Red Rock First Nation, on behalf of the Red Rock First Nation band of Indians v. The Attorney General of Canada, Her Majesty the Queen in Right of Ontario, Ontario Hydro, also known as the Ontario Electricity Financial Corporation, Ontario Power Generation Inc., and the Ontario Hydro Services Company Inc., also known as Hydro One Networks Inc., Ontario Superior Court of Justice, filed in Thunder Bay, court file #01-384; and

Peter Collins, Chief and a Member of the Fort William Indian Band, on his own behalf and on behalf of the members of Fort William Indian Band, Fort William Indian Band (also know as Fort William First Nation) and Fort William First Nation Development Corporation v. Attorney General for Canada on behalf of Her Majesty the Queen in Right of Canada, Her Majesty the Queen in Right of Ontario, Canadian National Railway Company, Hydro One Networks Inc., Dingwell's Machinery & Supply Limited, Coastal Steel Construction Limited, Mcasphalt Industries Ltd, Mission Terminal Inc., Cargill Ltd., Abitibi-Price Inc., Pollard Highway Products Ltd., Bowater Canadian Forest Products Inc., Synfuel Technologies, Inc., Sterling Pulp Chemicals, Ltd., General Chemical Canada Ltd., Municipal Property Assessment Corporation, and the Corporation of the City of Thunder Bay, Ontario Court of Justice File # 03-0088; and

Chief Victor Lesperance; Mike Esquega; Frank Hardy Jr.; James Hardy Sr.; Simon Onakanokis; Edward King; Biinjitiwaabik Zaaging Anishinaabek First Nation (also known as Rocky Bay Band) v. Attorney General of Canada; Her Majesty the Queen in Right of Ontario, Ontario Superior Court of Justice File # CV-2006-167; and

.../3

Chief John Bouchard, Councillors René Wanakamik, Frank Achneepineskum, Xavier Thompson on their own behalf and on behalf of all other members of Ojibway Nation who are members of Pawgwashing First Nation also known as Pays Plat First Nation v. Attorney General of Canada; Her Majesty the Queen in Right of Ontario, Ontario Superior Court of Justice File # CV-2006-177.

I am unable to comment with respect to the possible effect of these claims as the cases have not yet been adjudicated and any statement regarding the outcome of the litigation would be speculative at this point. It is recommended that you consult legal counsel as to the effect these actions could have on the lands you are concerned with.

If you are interested in further details about the claims, copies of the pleadings can be obtained from the Court for a fee: please contact the appropriate Court Registry Office and make reference to the court file numbers listed above.

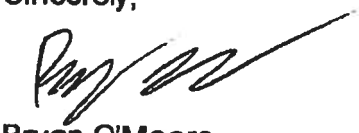
We cannot make any comments regarding claims filed under other departmental policies. For information on any claims you should also contact Don Boswell of the Specific Claims Branch at (819) 953-1940 to inquire about any Specific Claims. To inquire about any current Comprehensive Claims, please contact Nicole Cheechoo of Treaty and Aboriginal Government Central Operations at (819) 997-3499.

If you have any further questions please do not hesitate to contact me at (819) 994-2071. Also, please note that for all future requests of this nature should no longer be addressed to Mr. Mr. Jonathan Allen. Instead, could you kindly modify your distribution list to send these requests to the following destination:

Litigation Team Leader, Ontario/Nunavut Team
Indian and Northern Affairs
LITIGATION MANAGEMENT AND RESOLUTION BRANCH
10 Wellington Street
Gatineau, Quebec
K1A 0H4

.../4

Sincerely,



Bryan O'Meara
Litigation Case Manager
Eastern Litigation Directorate
Litigation Management and Resolution Branch

DISCLAIMER: In this Disclaimer, "Canada" means Her Majesty the Queen in right of Canada and the Minister of Indian Affairs and Northern Development and their servants and agents. Canada does not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any data or information disclosed with this correspondence or for any actions in reliance upon such data or information or on any statement contained in this correspondence. Data and information is based on information in departmental records and is disclosed for convenience of reference only. Canada does not act as a representative for any Aboriginal group for the purpose of any claim. Information from other government sources and private sources (including Aboriginal groups) should be sought, to ensure that the information you have is accurate and complete.

From: Dorion Resident #1
Sent: February 1, 2010 21:51
To: 'Dan Currie'
Subject: Red Rock Waste Water Treatment

Hello Mr. Currie

I would like to submit my comment supporting the Envapocrystallization process by Northern Watertek. This process is able to take the effluent away from the lake and process it in an environmentally friendly manner in a forest area. It appears that this process is also cost effective as the Capital and operating and maintenance costs are well below conventional technologies.
As an avid fisherman I look forward to the day that the effluent from Red Rock no longer flows into the bay. It would be a shame to install a sewage lagoon next to the beautiful Red Rock Marina.

Dorion Resident #1
Dorion ON.

Dan Currie

From: jeff white [jwhite@watertek.org]
Sent: February 4, 2010 12:18
To: Dan Currie
Subject: Red Rock

Dan:
My last message to you was asking you if you wanted more technical information re our submission re the zero discharge -EVC* system for Red Rock.

We have several other systems in the area in various stages of proposal-some first Nations and others --If you get into this program with us for Red Rock, we could then use your services to carry out onsite work and approvals-None of these projects involve OCWA.
regards
Northern Watertek Corp.
Jeff white P.Eng.

Dan Currie

From: jeff white [jwhite@watertek.org]
Sent: February 8, 2010 10:39
To: Dan Currie
Subject: Re: Red Rock

We will give it a bit of time to wash thru the system. It is 16.6 Megs --can u handle that size coming in.. What is your server limit?
Jeff White

----- Original Message -----
From: Dan Currie
To: 'jeff white'
Sent: Monday, February 08, 2010 10:31 AM
Subject: RE: Red Rock

Jeff - FYI, if you did sent something, I did not receive it.

Dan

From: jeff white [mailto:jwhite@watertek.org]
Sent: February 4, 2010 13:18
To: Dan Currie
Subject: Re: Red Rock

I'll package it up in a Zip file today
regards
jeff White

----- Original Message -----
From: Dan Currie
To: 'jeff white'
Sent: Thursday, February 04, 2010 12:54 PM
Subject: RE: Red Rock

Hi Jeff,

We are just starting to get into the evaluation of the various alternative processes. I do have the information that was previously provided (I believe it was the info. the Township had). However, if you have additional info. you think would be useful, it wouldn't hurt to send it along.

Regards,

Dan

From: jeff white [mailto:jwhite@watertek.org]
Sent: February 4, 2010 12:18
To: Dan Currie
Subject: Red Rock

Dan:
My last message to you was asking you if you wanted more technical information re our submission re the zero discharge -EVC* system for Red Rock.

We have several other systems in the area in various stages of proposal-some first Nations and others –If you get into this program with us for Red Rock, we could then use your services to carry out onsite work and approvals-None of these projects involve OCWA.
regards
Northern Watertek Corp.
Jeff white P.Eng.

This message,including any attachments, is privileged and may contain confidential information intended only for the person(s) named above. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by reply email and permanently delete the original transmission from use, including any attachments, without making a copy.

This message,including any attachments, is privileged and may contain confidential information intended only for the person(s) named above. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by reply email and permanently delete the original transmission from use, including any attachments, without making a copy.

Dan Currie

From: jeff white [jwhite@watertek.org]
Sent: February 8, 2010 15:50
To: Dan Currie
Subject: Re: red Rock data file -ZIP

No --I didn't get a response from the server so it was sent twice--An e-mail that size will clean out your paths.
Jeff White

----- Original Message -----
From: Dan Currie
To: 'jeff white'
Sent: Monday, February 08, 2010 10:54 AM
Subject: RE: red Rock data file -ZIP

I received two emails, they both seem to have the same info. attached. Is there any difference?

Dan

From: jeff white [mailto:jwhite@watertek.org]
Sent: February 8, 2010 10:46
To: Dan Currie
Cc: Kevin Muloin
Subject: red Rock data file -ZIP

The files are numbered , Dan.
When u unzip them they should reorganize in apprpriate order.

If you want a meeting I can come North to discuss any detail you wish.

I have also included a draft presentation that was made on behalf of Lanark Highlands to MOE Approvals--

The response was amusing, following submittal--They questioned as to why we proposed a standard way above what they would demand??? I am still shaking my head on that one.
regards
Jeff White

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ENL

Engineering Northwest Ltd.

Consulting Engineers

TELEPHONE MESSAGE ☐ MEMO TO FILE ☒

Recorded by: Dan Currie
Talked with: Gail Jackson
Company: Parks Canada
Telephone: 705-646-1216

Date: Feb 8/10
P.N.: 09080 - EA
Project: Red Rock WWTP.

Circulate: ~~KB~~ HM MP KB

Message:

She recived our Notice for the profect

As she and I had previously discussed, the location of the outfall will have an impact on the Marine Conservation Area (MCA)

She shouldn't have a problem. re-adjusting the MCA boundaries for a new outfall she just needs to know the location.

We need to keep her up to date.

Melissa → can you please ensure this gets to the correct file

ENL Engineering Northwest Ltd.
Consulting Engineers

TELEPHONE MESSAGE ☐ MEMO TO FILE ☒

Recorded by: Dan Currie
Talked with: Red Rock Resident #1
Company:
Telephone:
Message:

Date: Feb 8/10
P.N.: 09080 - EA
Project: Red Rock WWTP
Circulate: K/B HM M/P MP

Called in response to the Initial Notice Ad.

He expressed concerns about cost of the project, his taxes going up, the necessity of the project.

I basically explained that there was funding for the project (the details of which I did not have at my finger tips) and these issues would be evaluated as part of the EA process.

His specific questions were:

(1) When does the Township need to comply?
(2) Bleeder valves → how much do they discharge to the sanitary system?
(3) What is the treated water vs. sewage flow?

ENL

Engineering Northwest Ltd.

Consulting Engineers

TELEPHONE MESSAGE ☐ MEMO TO FILE ☐

Recorded by: H Bimler
Talked with: Aaron Nicholson
Company: RAP
Telephone: 343 - 8514

Date: Feb. 11, 2010
P.N.: ~~Red~~ 09080
Project: Red Rock WWTP

Circulate: ~~Don~~ → Gnw. File
DC

Message:

He had sent me an email (attached) + also called + left a message on my V-mail.

I called him back, he was kind of surprised to see the notice + invitation as we had already previously contacted him. - thought maybe we were further along in the process.

Advised the notice is a formality per the Class EA, + that we are still assembling + assessing the alternatives.

He + the committee are interested in meeting + providing their input once we have a preferred option together.

From: Kathy Bemben
To: "Hutchison, Carrie (ENE)"
Subject: RE: Waste Water Treatment Plant Upgrade - Township of Red Rock
Date: February 24, 2010 2:09:00 PM

Hi Carrie,

ENL was retained by OCWA on behalf of the Township to complete a Class EA for upgrades to the Red Rock WWTP. The earlier study was completed in 2004, with a supplemental report completed in 2006. Since that time the Township has received funding to proceed with the project, and prior to proceeding they want to revisit the alternatives that were explored along with several others, to ensure that the option that provides the most benefit to the Township is chosen.

The notice that we sent out was the initial notice at the commencement of the project. We are in the process of assembling the list of alternatives, along with the evaluation of same, in order to eventually arrive at a preferred solution, so a report has not been prepared yet. A PIC is proposed in the near future to present the alternatives to the public and government agencies, along with other interest groups that may exist.

As more information becomes available, I can forward it on to you.

Hope this gives you an update, but if you have any other questions, please let me know

Regards

Kathy

From: Hutchison, Carrie (ENE) [mailto:carrie.hutchison@ontario.ca]
Sent: Wednesday, February 17, 2010 4:12 PM
To: Kbemben@enl-tbay.com
Subject: Waste Water Treatment Plant Upgrade - Township of Red Rock

Hello Kathy,

I believe it would be beneficial if you provided me with an update regarding the activities that have transpired in relation to the proposed upgrade to the Waste Water Treatment Plant in the Township of Red Rock. MOE's file for this project ends on in May of 2006.

Also, if an environmental assessment report has been produced for this project, I cannot find it in our files and as such I do require a copy (1 hardcopy and 1 electronic).

Please call me when you return to the office so that we may discuss.

Sincerely,

Carrie Hutchison

Carrie Hutchison

Regional Planner/ EA Coordinator
Technical Support Section, Northern Region
Ontario Ministry of the Environment
Telephone: (807) 475-1720 Toll Free: 1(800) 875-7772
Facsimile: (807) 475-1754
E-mail: carrie.hutchison@ontario.ca

From: Dan Currie
To: "Kathy Bemben"; "Harold Makela"; "Melissa Price"
Subject: FW: Red Rock Waste Water Treatment
Date: February 22, 2010 8:39:08 AM

From: Dorion Resident #2
Sent: February 21, 2010 09:10
To: dcurrie@enl-tbay.com
Subject: Red Rock Waste Water Treatment

Dear Mr. Currie,

I would like to submit my comments regarding the waste water treatment options for Red Rock. I firmly believe that the best option for Red Rock would be the Envapocrystallization process by Northern Watertek. This system is able to take the effluent away from the lake and process it in an environmentally friendly manner away from the water. It is a process that transforms the effluent from a solid waste to vapour or snow with zero discharge into the environment. It is also the most cost effective process for the township of Red Rock, something to consider with the outflux of people leaving the area to find jobs. Operating and maintenance costs for this technology are well below the current conventional technologies.
Our environment has always been very important to me. We should all be trying to find the most effective and cost saving products that do the job well and save our environment so our children and grandchildren will have the same beautiful planet that we currently live on. I do not want to see us continue on the same path of destruction when there are viable technologies that deserve the opportunity to show us all how well they work. Please do not continue with technologies that are the same now as they were when our grandparents were alive. Red Rock is putting forth a great effort to upgrade their Marina so that visitors will come and admire their town and the beautiful area around it. A system like this will put Red Rock on the map for being one of the most enviromentally conscience areas and one that others will look up to. Please keep the Marina a place that others will want to come and enjoy and not one with a sewage lagoon next to a moored boat.

Dorion Resident #2
Dorion, ON

Live connected with Hotmail on your phone. Learn more.

Melissa Price

From: Dan Currie
Sent: June 30, 2010 11:22 AM
To: Melissa Price
Subject: FW: Approval of Snowfluent Process

From: Lam, Frederick (ENE) [mailto:Frederick.Lam@ontario.ca]
Sent: Wednesday, February 24, 2010 11:31 AM
To: Gundry, Michael
Cc: Ahmed, Aziz (ENE); Kalogo, Youssouf (ENE); Manoharan, Mano (ENE); Mahmood, Mansoor (ENE)
Subject: Approval of Snowfluent Process

Mike,

Snowfluent is considered as a disposal method of treated effluent but not a main treatment process.

Frederick Lam, P.Eng., M.Eng., LL.B.
Senior Wastewater Engineer
Wastewater Unit, Certificate of Approval Review Section
Environmental Assessment and Approvals Branch
Operations Division
Ministry of the Environment
2 St Clair Avenue West, 12 Floor
Toronto ON M4V 1L5
Tel 416 314 8186
Fax 416 314 8542

From: Gundry, Michael [mailto:Michael.Gundry@aecom.com]
Sent: February 24, 2010 10:42 AM
To: Ahmed, Aziz (ENE); Lam, Frederick (ENE); Kalogo, Youssouf (ENE); Manoharan, Mano (ENE)
Cc: Kathy Bemben; Dan Currie; Aniye, Meseret; Bob Dormer; Shairose Alarakhia; Casco, Patricia
Subject: Approval of Snowfluent Process

Aziz, Frederick, Youssouf, Mano

We are doing a Class EA for an upgrade of the Red Rock Primary WPCP to secondary treatment. One of the alternatives that has been raised is to use the Snowfluent Process as the main treatment process. We have a couple of questions for you regarding this:

Is the snowfluent process approvable by the Ministry of the Environment?
If the answer is yes, what would be the conditions imposed by the Ministry regarding the approval of this process?
What is the experience of the Ministry regarding this process?

Thanks for your help

Regards

Michael Gundry, P.Eng, PMP
Manager, Water
D 905.668.4021 ext. 2209
michael.gundry@aecom.com

AECOM
300 Water St. Whitby ON L1N 9J2

T 905.668.9363 F 905.668.0221
www.aecom.com

Dfn/ Mdlag → PN 09080 dnw.
MP - Added contacts to Mailing List.

Kathy Bemben

From: lee.alexander@HydroOne.com
Sent: March 2, 2010 12:11 PM
To: Kathy Bemben
Cc: Lana.Kegel@HydroOne.com; rick.schatz@HydroOne.com
Subject: RE: Red Rock WWTP -CCT 56M1 115kv PDES 86490
Attachments: Red Rock WTP review.ppt

I have looked at the map. Once there are some detailed drawings of the two areas, it would be nice to review them for potential concerns. The rural system may be affected more by this work. You should send a letter to the same address:
Distribution Lines
Attn: Mario Gosselin.
Box 10309, 255 Burwood Rd, Thunder Bay,
ON P7B 6T8

Richard, Lana, I do not know if anything is required as yet but will send anything I receive. More detail drawings and information will be needed to assess if the transmission corridor will require any changes from existing data. The Township of Red Rock is upgrading their water treatment facilities and the plant is just off the RoW.

Lee Alexander
Transmission Technician
Thunder Bay
Cel 807-627-3676
lee.alexander@HydroOne.com

From: Kathy Bemben [mailto:KBemben@enl-tbay.com]
Sent: Tuesday, March 02, 2010 11:03 AM
To: ALEXANDER Lee
Subject: RE: Red Rock WWTP

Hi Lee,

I've been having trouble sending the drawing to you, as it was such a big file. I hope I've got it to the point now that it will transmit ok, and it shows the proposed lagoon sites, as well as the existing WWTP site.

We welcome any comments you may have.

Regards

Kathy

From: lee.alexander@HydroOne.com [mailto:lee.alexander@HydroOne.com]
Sent: Thursday, February 25, 2010 10:07 AM
To: Kathy Bemben
Subject: RE: Red Rock WWTP

No, all I have received is the letter. If you have any info that may impact our transmission, please let me know.
If the changes will impact the rural lines (low voltage) please call the call center 800 number to get it looked at when it is known.

Lee Alexander
Transmission Technician

Thunder Bay
Cel 807-627-3676
lee.alexander@HydroOne.com

From: Kathy Bemben [mailto:kbemben@enl-tbay.com]
Sent: Wednesday, February 24, 2010 4:51 PM
To: ALEXANDER Lee
Subject: Red Rock WWTP

Hi Lee,

I had received your phone message a while ago regarding the initial notice that was sent out for the Red Rock WWTP Upgrades project.

At this time we are just getting started in developing alternative technologies to assess, some of which involve looking at different sites within the Township. I had tried sending you a plan of the area showing some potential locations for sewage lagoons, but got an error back, did you ever receive the email? It was sent on Feb. 11

Can you let me know please?

Kathy

****

Kathy Bemben, P. Eng.

Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.

Thunder Bay, Ont.

P7E 1C9

ph: 807-623-3449 Ext. 225

fax: 807-623-5925

email: kbemben@enl-tbay.com

****

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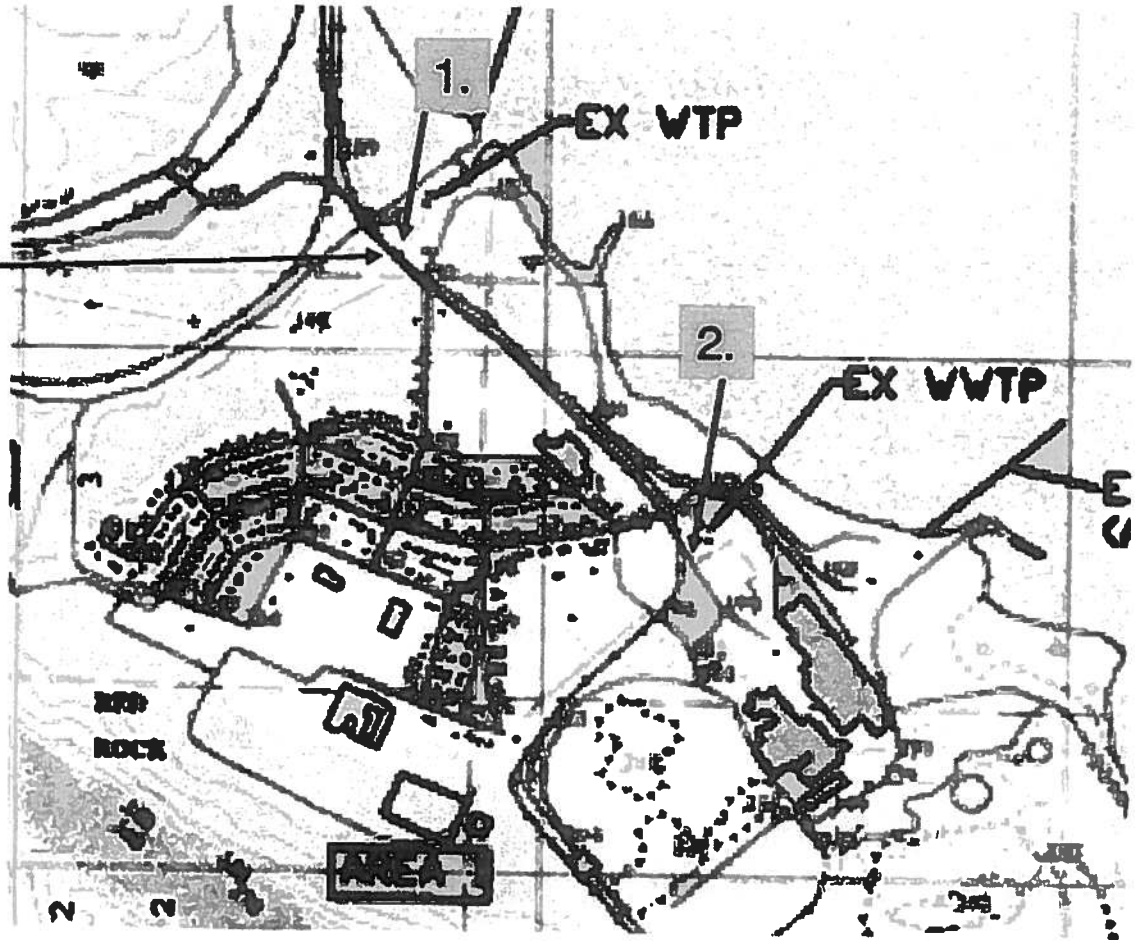
The location of the existing WTP (1) is just South East of our transmission line. Location (2) looks to be just after our substation before the mill. Once formal drawing are available, it would be nice to see what, if any impact there would be to our system. Please let us know so that we can have a review of work to be completed. This may impact our rural lines more than the Transmission system.

Transmission line closely follows the rural road



Dat -> 09080 Enver.
DC

Kathy Bemben

From: Kathy Bemben
Sent: March 2, 2010 11:03 AM
To: 'lee.alexander@HydroOne.com'
Subject: RE: Red Rock WWTP
Attachments: G1-scan-mar3-2010.pdf

Hi Lee,

I've been having trouble sending the drawing to you, as it was such a big file. I hope I've got it to the point now that it will transmit ok, and it shows the proposed lagoon sites, as well as the existing WWTP site.

We welcome any comments you may have.

Regards

Kathy

From: lee.alexander@HydroOne.com [mailto:lee.alexander@HydroOne.com]
Sent: Thursday, February 25, 2010 10:07 AM
To: Kathy Bemben
Subject: RE: Red Rock WWTP

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If the changes will impact the rural lines (low voltage) please call the call center 800 number to get it looked at when it is known.

Lee Alexander
Transmission Technician
Thunder Bay
Cel 807-627-3676
lee.alexander@HydroOne.com

From: Kathy Bemben [mailto:kbemben@enl-tbay.com]
Sent: Wednesday, February 24, 2010 4:51 PM
To: ALEXANDER Lee
Subject: Red Rock WWTP

Hi Lee,

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At this time we are just getting started in developing alternative technologies to assess, some of which involve looking at different sites within the Township. I had tried sending you a plan of the area showing some potential locations for sewage lagoons, but got an error back, did you ever receive the email? It was sent on Feb. 11

Can you let me know please?

Kathy

****

Kathy Bemben, P. Eng.

Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.

Thunder Bay, Ont.

P7E 1C9

ph: 807-623-3449 Ext. 225

fax: 807-623-5925

email: kbemben@enl-tbay.com

****

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ENL

Engineering Northwest Ltd.

Consulting Engineers

TELEPHONE MESSAGE ☐ MEMO TO FILE ☐

Recorded by: H Beulbee
Talked with: Paige Campbell
Company: MCCR
Telephone:

Date: March 2, 2010
P.N.: 09080
Project: Red Rock WWTP

Circulate: ~~Don~~ -> Env. file
DC

Message:

She called to see if an Archaeological Assessment was completed during the previous EIR, as she couldn't find anything in her file.

I advised I wasn't sure, but it may not have been as they were focusing mainly on the existing site. Advised we had retained Bill Ross to complete a Stage 1 Assessment on the 5 lagoon sites we have proposed, + that 2 of the sites have a medium to high potential for archaeological resources.

She will end up getting a copy of Bill's report, + just asked her to keep her up to date.
She said not to worry about looking for a previous report, as Bill's will be the newest.

Currie, Daniel

From: Jordan, Paul (ENE) [Paul.Jordan@ontario.ca]
Sent: March-09-10 10:33 AM
To: Dan Currie
Subject: RE: Red Rock WWTP Effluent Criteria

Dan,

This email constitutes a formal response to your letter dated January 11, 2010 regarding effluent limits for sewage treatment plant discharge into Nipigon Bay.

The limits identified in the 2004 Class EA and MOE policy F-5 are still valid. Consequently the limits will be 25, 25, 1 and non-toxic.

Paul

-----Original Message-----
From: Dan Currie [mailto:dcurrie@enl-tbay.com]
Sent: February 23, 2010 11:37 AM
To: Jordan, Paul (ENE)
Subject: Red Rock WWTP Effluent Criteria

Hi Paul,

As per our discussion please see attached letter regarding the effluent criteria.

A formal response from the Ministry would be appreciated.

Thanks,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

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Currie, Daniel

From: Jordan, Paul (ENE) [Paul.Jordan@ontario.ca]
Sent: March-09-10 11:07 AM
To: Dan Currie
Subject: Red Rock

Dan,

One thing which I forgot to mention in my last email is that the Red Rock limit for phosphorous will be 1.0 mg/l, however there will likely also be an objective of 0.8 mg/l. These number are consistent with those in the Nipigon CofA.
Paul

ENL Engineering Northwest Ltd.
Consulting Engineers

April 8, 2010 PN 09080 ENV

Red Rock Resident #1
Red Rock, ON P0T2P0

Dear Red Rock Resident #1

Re: February 8, 2010 Correspondence & Upcoming Public Consultation Centre – Open House
Municipal Class Environmental Assessment
Red Rock Waste Water Treatment Plant Upgrades

We are writing in response to your telephone conversation with Dan Currie of Engineering Northwest Ltd. on February 8, 2010 regarding the above noted project and the comments, questions and concerns you expressed.

We note your concerns generally related to the necessity and cost of the project and potential increases in taxes. We acknowledge your concerns and have noted these concerns to the Township.

Your specific questions were as follows:

1) When is the Township required to comply?
2) What is the volume of water discharged to the sanitary system by watermain bleeder valves?
3) What is the treated water flow versus the sewage effluent flow?

In response to your questions we provide the following information:

- The existing Wastewater Treatment Plant does not presently comply with the existing Provincial Regulations which require the provision of secondary treatment. Furthermore, Nipigon Bay is classified as an Area of Concern (AOC) under the Canada-US Great Lakes Water Quality Agreement due to pollution and a Remedial Action Plan (RAP) was developed. The provision of secondary treatment for the Red Rock Wastewater Treatment Plant was identified as one of the RAP priority actions necessary to delist Nipigon Bay as an AOC.

  There is no specific date that has been imposed for compliance, however, funding is presently available for these types of projects to be designed and constructed by March 31, 2014.

- The following three watermain bleeder locations are installed in the community:

  a) Highway 628 – in 2009 a total of 8,480 m^3 of water has been discharged to the sanitary system.
  b) Bell Building on Frost St. - a meter was installed on this bleeder in the fall of 2009. Since installation of the meter a total of 5,242 m^3 of water has been discharged to the sanitary system.

200 S. Syndicate Ave., Suite 301 Thunder Bay, Ontario P7E 1C9 Telephone: (807) 623-3449 Fax: (807) 623-5925 Email: general@enl-tbay.com www.enl-tbay.com

c) Brompton Rd. – this bleeder discharges to a ditch. A total of 18,000 m^3 was discharged to the ditch in 2009.

The watermain bleeders are necessary to ensure adequate chlorine residuals in the distribution system are maintained as a requirement of the Safe Drinking Water Act.

- The total treated water flow and sewage effluent flow in 2009 was 181,000 m^3 and 241,000 m^3 respectively.

We encourage you to attend the upcoming Public Consultation Centre to review the additional project information which will be held at:

Red Rock Recreation Centre (Baker Street entrance) – Senior's Room
19 Brompton Road, Red Rock
Wednesday, April 28th, 2010
4:00 PM to 7:00 PM

The Public Consultation Centre has been planned to provide further information to the public on the study and to receive input and comment from interested persons. Staff from the Township of Red Rock and their consultants will be available to discuss the project with you.

The *Notice of Public Consultation Centre* that was published in local newspapers is attached which includes a location map and details about the Municipal Class Environmental Assessment process. If you have any comments or concerns or would like additional information about the study, please contact Engineering Northwest Ltd. as indicated in the notice.

Yours truly,
Engineering Northwest Ltd.

Kathy Bemben, P. Eng.,
Project Manager

Enclosure

c.c. M. Groulx, Township of Red Rock
S. Alarakhia, Ontario Clean Water Agency
ENL/file

From: Kathy Bemben
To: "McChristie, Michelle (ENE)"
Subject: RE: Red Rock WWTP Upgrades - PIC Municipal Class EA
Date: April 30, 2010 4:35:00 PM
Attachments: Display panels Red Rock WWTP.pdf

Hi Michelle,

Please find enclosed a pdf of the displays that were presented at the Red Rock PCC on Apr. 28.

Aaron has contacted me previously regarding the RAP PAC, so yes we are aware of the committee, and they are on our mailing list for this project. I will send Aaron the displays. There were a few people from the RAP PAC at the meeting.

We welcome any comments you may have.

Regards

Kathy
****
Kathy Bemben, P. Eng.
Engineering Northwest Ltd.
Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com
****

-----Original Message-----
From: McChristie, Michelle (ENE) [mailto:Michelle.McChristie@ontario.ca]
Sent: Friday, April 30, 2010 3:08 PM
To: Kathy Bemben
Cc: Kok,Sandra [Burlington]
Subject: FW: Red Rock WWTP Upgrades - PIC Municipal Class EA

Hi Kathy,

Would you be able to send me a copy of the presentation materials from the PIC in Red Rock?

I work in the Great Lakes program with the Ministry of the Environment and, in particular, on the remedial action plan for Nipigon Bay. As you are probably aware, the WWTP upgrades in Nipigon and Red Rock are priority actions under the remedial action plan.

I would like to share the materials with my colleuges at Environment Canada and also the coordinator for the Remedial Action Plan (Aaron Nicholson, Lakehead University). Are you aware of the Public Advisory Committee for the remedial action plan? If not, I can provide you with Aaron's contact information. I know this group is very interested in the WWTP upgrades.

Michelle

Michelle McChristie
Great Lakes Advisor
Ministry of the Environment
Northern Region
435 South James Street, Suite 331
Thunder Bay, ON P7E 6S7
Phone: 807.475.1693
Fax: 807.475.1754

-----Original Message-----
From: Kok,Sandra [Burlington] [mailto:Sandra.Kok@ec.gc.ca]
Sent: April 30, 2010 2:24 PM
To: McChristie, Michelle (ENE)
Cc: Taillon,Kate [Ontario]
Subject: RE: Red Rock WWTP Upgrades - PIC Municipal Class EA

Is it possible to get a copy of the presentation materials for my reference? Hope the open house was well attended.

Sandra Kok,
Senior RAP Program Engineer
Great Lakes Division
Great Lakes Areas of Concern Section
Environment Canada
867 Lakeshore Road
Burlington, ON L7R 4A6
telephone : 905-336-6281
facsimile : 905-336-6272

-----Original Message-----
From: McChristie, Michelle (ENE) [mailto:Michelle.McChristie@ontario.ca]
Sent: Tuesday, April 13, 2010 1:56 PM
To: Aaron Nicholson; Robert Stewart; Taillon,Kate [Ontario]; Chase, Marilee (MNR); Kok,Sandra [Burlington]
Cc: deBarros, Conrad (ENE)
Subject: FW: Red Rock WWTP Upgrades - PIC Municipal Class EA

FYI - upcoming open house regarding the Class EA for the Red Rock WWTP.

Michelle

Michelle McChristie
Great Lakes Advisor
Ministry of the Environment
Northern Region
435 South James Street, Suite 331
Thunder Bay, ON P7E 6S7
Phone: 807.475.1693
Fax: 807.475.1754

-----Original Message-----
From: Rawn, Trina (ENE)
Sent: April 12, 2010 5:29 PM

To: Sheriff, Scott (ENE); Jordan, Paul (ENE); McChristie, Michelle (ENE); Hutchison, Carrie (ENE)
Subject: Red Rock WWTP Upgrades - PIC Municipal Class EA

Please find the attached information for Red Rock WWTP Upgrades - PIC Municipal Class EA scheduled for April 28, 2010.

I will forward the original to the T-bay district office files.
Thanks,
Trina

-----Original Message-----
From: roxanne.chambers@ontario.ca [mailto:roxanne.chambers@ontario.ca]
Sent: April 12, 2010 4:26 PM
To: Rawn, Trina (ENE)
Subject: Scanned image from Ministry Of Environment Kenora

DEVICE NAME: Ministry Of Environment Kenora
DEVICE MODEL: SHARP AR-M257
LOCATION: Kenora

FILE FORMAT: PDF G4
RESOLUTION: 200dpi

Attached file is scanned image in PDF format.
This file can be read by Adobe Acrobat Reader.
The reader can be downloaded from the following URL:

http://www.adobe.com/

Dan -> 09080 dnw
DC

Kathy Bemben

From: Kathy Bemben
Sent: April 30, 2010 5:24 PM
To: Aaron Nicholson (aaron.nicholson@lakeheadu.ca)
Subject: Red Rock WWTP PCC

Hi Aaron,

We held a Public Consultation Centre for the Red Rock WWTP Upgrades on Apr. 28, and I am enclosing the displays that were presented for your information, and for the information of the Public Advisory committee. There were a few members of the committee at the meeting.

We welcome any comments you may have.

Regards

Kathy

Display panels Red Rock WWTP.p...

Dan Currie

From: Gail.Jackson@pc.gc.ca
Sent: April 30, 2010 14:19
To: Dan Currie
Subject: Re: Red Rock WWTP
Attachments: pic19634.gif; redrck.pdf

Hi Dan,

Further to our conversation today, I am confirming that on the PDF attached (2009345-003) - Part 2 (lakebed) is to be included within the Lake Superior National Marine Conservation Area (LS NMCA). The Licences of Occupation held on Provincial Crown lakebed in front of the Town of Red Rock are not included in the NMCA. I understand that you are still in the process of public consultation and have not confirmed the specific location of the waste water outflow pipe. Please advise me when these details become known so that we can ensure that Red Rock's waste water outflow requirements are met and the outflow pipe remains outside of the Lake Superior National Marine Conservation Area.

It is not anticipated for the LS NMCA to be legislated until 2011 FYI.
Thanks, Gail

Gail Jackson
National Marine Conservation Areas Program Advisor Park Establishment Branch - Parks Canada
R. R. #2 - 129 Denniss Drive Bracebridge, Ontario P1L 1W9

tel. (705) 646-1216
fax (705) 646-0355
gail.jackson@pc.gc.ca

(Embedded image moved to file: pic19634.gif)

From: Dan Currie <DCurrie@enl-tbay.com>

To: "Gail.Jackson@pc.gc.ca" <Gail.Jackson@pc.gc.ca>

Date: 30/04/2010 11:14 AM

Subject: Red Rock WWTP

Hi Gail,

As you may be aware, we held our Public Consultation Centre earlier this week for the Red Rock Wastewater Treatment Plant Upgrades.

The MNR was in attendance and produced the attached survey plan. They noted that Part 2 was not included in the Marine Conservation Area, can you confirm this?

If this is the case, then the location of an outfall is not likely to be a concern of the MCA.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

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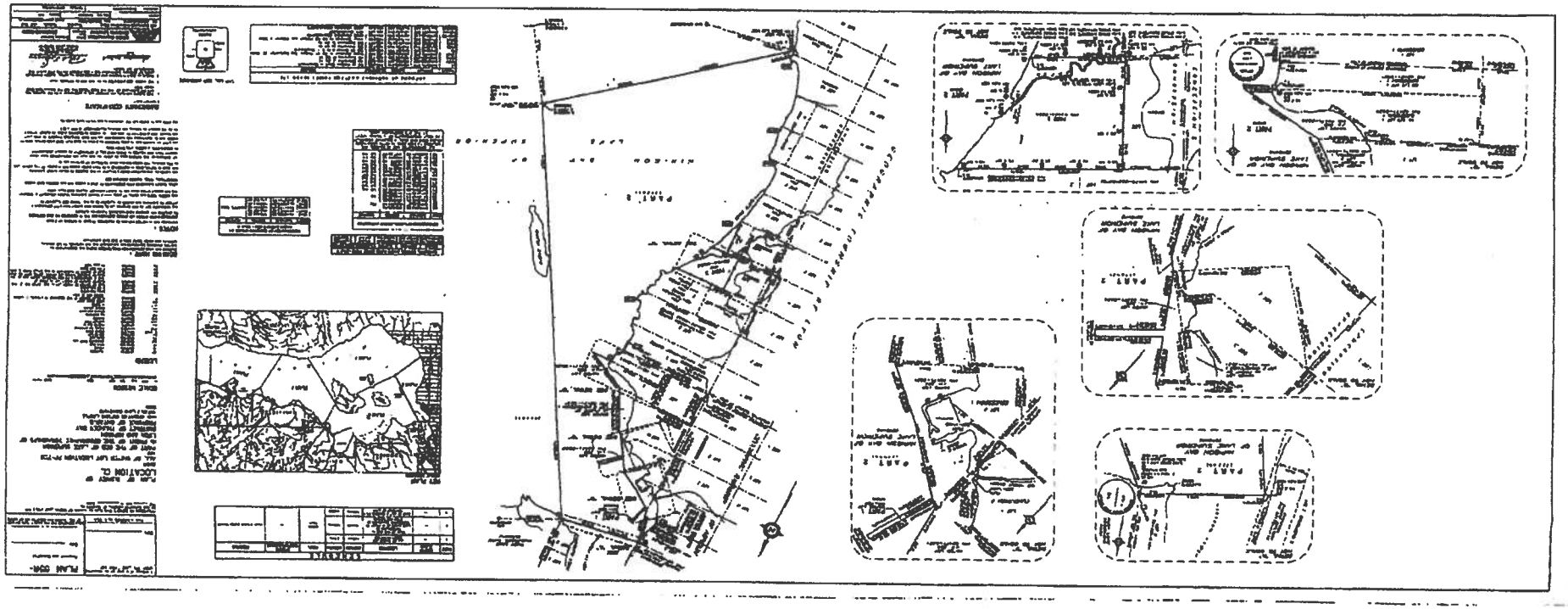
(See attached file: redrck.pdf)



Melissa Price

From: Dan Currie
Sent: April 30, 2010 10:48 AM
To: cameronb@metisnation.org
Cc: Harold Makela; Melissa Price; Kathy Bemben
Subject: Red Rock Wastewater Treatment Plant Environmental Assessment

Mr. Burgess,

Thank you for coming by to review the information presented at the Public Consultation Centre for the Township of Red Rock Wastewater Treatment Plant upgrades on Wednesday April 28, 2010.

With respect to your concern regarding the contact of the Métis Nation of Ontario, the following address was included on our distribution list for the project:

Métis Consultation Unit
Métis Nation of Ontario Head Office
500 Old St. Patrick Street, Unit D
Ottawa, ON K1N 9G4

We will include you on all future distribution of information concerning the project, at the following address:

Cameron Burgess
Chair - Consultation Committee Thunder Bay and Region Métis Nation of Ontario
841 Brodie St. North
Thunder Bay, ON
P7C 3V1
Ph: 807-622-2167
Email: cameronb@metisnation.org

I also note that the Red Rock Indian Band (Chief Pelletier) is on the distribution contact list for the project.

If there are any other questions, comments or concerns, please feel free to contact the undersigned

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Dan Currie

From: Dan Currie
Sent: May 11, 2010 14:34
To: 'kevinmuloin@sympatico.ca'; 'jwhite@watertek.org'
Cc: Kathy Bemben (kbemben@enl-tbay.com); Gundry, Michael; 'Aniye, Meserel'
Subject: Red Rock Wastewater Treatment Plant EA
Attachments: NWT approach clarification questions.xlsx

Hi Kevin,

Please find attached request for additional information regarding the EVC process. This will provide us with some additional information such that a cost comparison can be completed for effluent discharge alternatives.

At the public consultation centre held in Red Rock on Wednesday April 28, 2010 you indicated you were going to supply information from the MOE indicating that the proposed EVC process is an acceptable secondary treatment process. If you have sent such information, I have NOT received it. Please advise.

If there are any questions regarding the attached please let me know.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Clarification Questions On the Northern Watertek Approach for The Red Rock Wastewater Treatment Plant

1 Design should be based upon average day flow of 1,272 m3/d to fairly compare with other treatment processes. Update all costs based on this flow.

2 re-size the lagoon size based on the 1,272 m3/d. It is preferred to have two parallel cells in stead of one cell (cell 2).

3 compressor
motor power (kw) =
overall efficiency =
estimated hour of operation annually =

4 high pressure pumps (P5 and P6)
motor power (kw)/pump =
motor efficiency =
pump efficiency =
overall efficiency =
total hours of operation annually =

5 recirculation pump d/s RIF (P4)
motor power (kw)/pump =
motor efficiency =
pump efficiency =
overall efficiency =
total hours of operation annually =

6 pump d/s lagoon pump (P3)
motor power (kw)/pump =
motor efficiency =
pump efficiency =
overall efficiency =
total hours of operation annually =

7 volume and area of various tanks
snow storage tank area = volume =
cell No.1 area = volume =
cell No.2 area/cell = volume/cell = No. cells =

8 what is the design basis for the snow storage area?

9 cost estimates should take into account the disposal costs. If spray irrigation is chosen as a final disposal alternative, storage will be required to keep all the flows until the weather allows to spray on the land. I did a quick calculation . Based upon the MOE the maximum days one can spray irrigate on a land is 100 days per year and 55000 L/ha.d. if i assume 70 % of the influent will be evaporated, I will need 25 ha of irrigation land that has to be fenced and protected from run off .

10 how will the effluent be disinfected during the non- freezing period?

11 If the water table at the site where spray irrigation will be applied is above 2 m, underdrain will be required. Does the cost estimate take into account this?

12 What is the noise level in dB about 100 m of where the compressor and pumps will be installed? At the discharge of the snow gun?

Dan Currie

From: Mic Groulx [micgroulx@shaw.ca]
Sent: May 14, 2010 10:44
To: Kathy Bemben
Subject: FW: Northern Watertek Proposal
Attachments: RED ROCK PRELIM PROPOSAL.doc

Kathy:

Just to keep you in the loop. The attached is the latest we received from Watertek.

From: Kevin Muloin [mailto:kevinmuloin@sympatico.ca]
Sent: May 10, 2010 3:58 PM
To: micgroulx@shaw.ca
Subject: Northern Watertek Proposal

Hello Mic,

I spoke with Gary this afternoon and he asked me to send this proposal to your attention. He will be in the office to review it tomorrow.

Regards,

Kevin Muloin

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5107 (20100512)
_____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5113 (20100513)
_____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

MEMO:-To Kevin Muloin ---Superior Green Consulting

- 2010-05-07
- Re:- RED ROCK

This document authorizes you to advise The Mayor and Council of Red Rock, as follows:-

Turn-key design build, all costs- including approvals---$8,795,460.

- plus taxes(fully recoverable by Red Rock)
- Plus MOE Licence fee to be paid by Red Rock
- Plus land to site facilitities.
- FIXED PRICE-all contingencies included.

This price includes full and complete O&M costs for a full 5 years following first date of functional use. A separate corporate entity will be formed, with Red Rock having a member of the Board, to operate the plant. This entity will be turned over to Red Rock at the end of five years. This will allow for full transparency of operations.
We will train your staff as required at no cost to Red Rock for turn over and on-going operations.

The documents of process assurance from MOE has been requested from the new Supervisor of Approvals.
Several people in MOE that know of NWC's EVC* technology in detail, proposed herein, are working on this request and response, officially, is expected shortly.

This system proposed, is fully automated and does not need full time operators. It is a ZERO DISCHARGE system with absolutely no discharge to Trout Creek or the Lake Superior waterfront—GUARANTEED.

NORTHERN WATERTEK CORPORATION
115 Deerfox Drive,
OTTAWA, ON., CANADA
K2J 4W4
315 608 7541 jwhite@watertek.org

Dan Currie

From: Dan Currie
Sent: [illegible], 2010 16:19
To: 'jwhite@watertek.org'; 'kevinmuloin@sympatico.ca'
Subject: Red Rock Wastewater plant EA

Kevin/Jeff,

The Township is obligated under the Ontario Environmental Assessment Act to complete a Class Environmental Assessment (EA) to determine the most appropriate or preferred action to address a particular problem or opportunity relating to infrastructure projects. In this case, the main problem is that the existing wastewater treatment plant does not provide secondary treatment. In other words, the Township, by law, cannot simply move directly to construction of an infrastructure project without first conducting the EA process to identify and evaluate the alternatives.

As part of the EA process for this project, we would be pleased to further review your EVC technology proposal, but require the additional information previously requested in order to complete a fair comparison of all the alternatives.

In order to keep the project moving forward, a response is respectfully requested by May 28, 2010.

If there are any questions please do not hesitate to call.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

NORTHERN WATERTEK CORP.

Original signed by Jeffrey A. White P.Eng.

Jeffrey A. White P.Eng.,
President and CEO

NORTHERN WATERTEK CORPORATION
115 Deerfox Drive,
OTTAWA, ON., CANADA
K2J 4W4

315 608 7541 jwhite@watertek.org

Dan Currie

From: [redacted]
Sent: May 19, 2010 21:04
To: Dan Currie
Cc: Doug; Kevin Muloin
Subject: Re: Red Rock Wastewater plant EA

Your presentation and subsequent questions re our proposal re Red Rock show you do not comprehend our approach.
In fact the presentation you made was a misrepresentation of what we had proposed --We are now involved in a political legal; entanglement with Approvals of MOE because Fred Lam of Approvals who advised you is in full retreat.
Our process , and I say Process was approved by Fred Lam for Lanark this past year. Your presentation was damaging to us and we hold you responsible considering we offered help several times, in that you should have got it right.

You file your report as you see fit ,and we will file an amendment to the ESR accordingly.
You advised Red Rock that our process was not approvable nor would it be approved--That was your error.
We will deal with Red Rock. It is obvious that you didn't even listen to them.

Please do not tell us how the EA process works as we know better than anybody how it works when misrepresentations have been made, as herein.
We are not amused!
Jeff White P.Eng
NORTHERN WATERTEK CORP.
----- Original Message -----
From: "Dan Currie" <DCurrie@enl-tbay.com>
To: <jwhite@watertek.org>; <kevinmuloin@sympatico.ca>
Sent: Wednesday, May 19, 2010 3:18 PM
Subject: Red Rock Wastewater plant EA

> Kevin/Jeff,
>
> The Township is obligated under the Ontario Environmental Assessment
> Act to complete a Class Environmental Assessment (EA) to determine the
> most appropriate or preferred action to address a particular problem
> or opportunity relating to infrastructure projects. In this case, the
> main problem is that the existing wastewater treatment plant does not
> provide secondary treatment. In other words, the Township, by law,
> cannot simply move directly to construction of an infrastructure
> project without first conducting the EA process to identify and evaluate the alternatives.
>
> As part of the EA process for this project, we would be pleased to
> further review your EVC technology proposal, but require the
> additional information previously requested in order to complete a
> fair comparison of all the alternatives.
>
> In order to keep the project moving forward, a response is
> respectfully requested by May 28, 2010.
>
> If there are any questions please do not hesitate to call.
>
> Regards,

From:	McChristie, Michelle (ENE)
To:	Kathy Bemben
Cc:	Mic Groulx
Subject:	Red Rock Class EA
Date:	May 20, 2010 4:04:19 PM
Attachments:	WEAO - MWWE CGI WSER Overview.pps

Hi Kathy,

Although you are probably aware of EC's proposed reg, EC asked that I share some information with you. The proposed reg has been published in the gazette:

html version: http://www.gazette.gc.ca/rp-pr/p1/2010/2010-03-20/html/reg1-eng.html <http://www.gazette.gc.ca/rp-pr/p1/2010/2010-03-20/html/reg1-eng.html>

pdf version (pages 46-120): http://www.gazette.gc.ca/rp-pr/p1/2010/2010-03-20/pdf/g1-14412.pdf

I've also attached a presentation from the WEAO conference which might help summarize the proposed regulations.

Michelle

Michelle McChristie
Great Lakes Advisor
Ministry of the Environment
Northern Region
435 South James Street, Suite 331
Thunder Bay, ON P7E 6S7
Phone: 807.475.1693
Fax: 807.475.1754

Dan Currie

From: Mic Groulx [micgroulx@shaw.ca]
Sent: May 25, 2010 09:34
To: 'Kevin Muloin'
Cc: Kathy Bemben
Subject: RE: Draft letter for MOE

Kevin:

Sorry for the late response but I have been away. Nonetheless, I must inform you that we will not be issuing any letter to Mr. Gerretsen regarding your proposal.

In accordance with due diligence an ESR and options review is being undertaken by ENL on our behalf as contracted by the province via OCWA as you are quite aware. I can appreciate your concerns on the comments in the draft report that was initially presented at the public meeting, however your concerns should be addressed directly with ENL.

It is presumptuous of you to assume that your solution is the preferred solution chosen by the Township. The council will make it's decision based on the final report and subsequent review with Ms. Alakaria of OCWA.

From: Kevin Muloin [mailto:kevinmuloin@sympatico.ca]
Sent: May 19, 2010 10:56 PM
To: micgroulx@shaw.ca; info@redrocktownship.com
Subject: Draft letter for MOE

Hello,

Please find attached a draft letter for your use to provide a letter to Minister Gerretsen of MOE to request an explanation for the confusion around the EVC process. Larry Joy has requested a copy of such a letter before the weekend so he can discuss it with Minister Gravelle.

Thank you for your prompt response on such short notice.

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

Information from ESET NOD32 Antivirus, version of virus signature database 5143 (20100525)

Melissa Price

From: Dan Currie
Sent: June 30, 2010 9:46 AM
To: Melissa Price
Subject: FW: Township of Red Rock - New EC wastewater regulation

---

From: Osipenko, Nathalie (ENE) [mailto:Nathalie.Osipenko@ontario.ca]
Sent: May 28, 2010 14:28
To: Dan Currie; Shawn.Michajluk@ec.gc.ca; Jordan, Paul (ENE)
Cc: Uza, Matt (ENE)
Subject: RE: Township of Red Rock - New EC wastewater regulation

Hi, your email adequately summarizes our conversation and reflects a good overall understanding of the proposed regulation. The details will be more important once the regulation is finalized. I hope it is sufficient to help you with the plant's design. I offer the following additional comments and responses for your questions:

- For any other site specific parameters and effluent criteria dependant on the body of water, you need to confirm this and if pre-submission consultation is required with your district contact, Paul Jordan.
- Based on the draft regulation and its anticipated timelines a transitional authorization would be required by some point during the summer of 2012.
- An approval from the MOE will still be required. Depending on when the application is submitted there is a possibility that the process may have changed.
- There is a commitment to negotiate a bilateral agreement between the Federal Government and the Province for the administration of the regulation. It's a detail but its implementation is still dependant on successful negotiations.

Nathalie Osipenko
Supervisor, Program Support - Thunder Bay
Program Support Section, Northern Region
Phone (807) 475-1703
Cell (807) 627-4238
Fax (807) 475-1754
Nathalie.Osipenko@Ontario.ca

From: Dan Currie [mailto:DCurrie@enl-tbay.com]
Sent: May 26, 2010 2:38 PM
To: Shawn.Michajluk@ec.gc.ca; Jordan, Paul (ENE); Osipenko, Nathalie (ENE); McChristie, Michelle (ENE)
Cc: Kathy Bemben
Subject: RE: Township of Red Rock - New EC wastewater regulation

Shawn/Nathalie,

Thank you for providing the information regarding the new EC regulation. I have included a brief background of the existing project in Red Rock, followed by my understanding of the new regulation and some further questions as it relates to Red Rock.

I realize that the proposed regulation is still under review and there may be some further changes, but your guidance would be appreciated.

BACKGROUND

Engineering Northwest has been hired by the Township (through OCWA) to complete the Class EA for the upgrades to the existing WWTP (secondary treatment is to be provided). We are part way through the process of evaluating the alternatives and are planning to submit the notice of completion in the near future.

The existing wastewater treatment plant in the Township provides primary treatment and chlorine disinfection. It's present design capacity is 1272 m3/d (average) 3859 m3/d (peak).

A treatment process capable of secondary treatment with proposed design capacity 1578 m3/d (average), 4977 m3/d (peak) is proposed. The treatment process has not yet been selected.

The effluent criteria confirmed by the MOE for the new process is BOD – 25 mg/L, TSS – 25 mg/L, Phosphorus – 1 mg/L (0.8 objective), non toxic. See attached correspondence.

UNDERSTANDING OF NEW REGULATION

Here is what I understand based on my review of the regulation and discussion with Nathalie. Please correct me if I am in Error.

1) Approvals Process

The proposed EC regulation is scheduled to come into effect in late 2010. The approvals process for the construction of a new system is not anticipated to be changed (i.e. approval will be through the MOE as it has in the past). However, a transitional authorization might be required when the proposed regulation comes into effect, thus authorizing the existing plant to deposit until the new plant comes online. This may require the submittal of an request for authorization. The length of time that a transitional authorization is granted for is dependent on a risk assessment.

A bilateral agreement between the Federal Government and the Province will be implemented for the administration of the regulation. This is not currently in place.

2) Effluent criteria, testing and monitoring requirements

Below are the effluent criteria in the proposed regulation:

CBOD – 25 mg/L
TSS – 25 mg/L
Total Residual Chlorine <0.02 mg/L
Un-ionized ammonia <1.25 mg/L
Non lethal

It was suggested that any design should adhere to these standards.

I understand that the ammonia requirement is under review.

For flow rates less than 2500 m3/d (based on an annual average) monthly grab or composite samples are required for the above parameters. Reporting is based on quarterly averages.

Acute toxicity monitoring is not required for flows less than 2500 m3/d, but the effluent must be non-toxic.

Generally, other requirements of the proposed regulation include:

-flow monitoring;
-identification report submitted by February 15, 2011;

-Quarterly monitoring reports summarizing the testing, flows etc. to be submitted;
-Conduct and environmental effects study in August or September of 2013;
-Development of a response plan for "deposit out of the normal course of events", update and test it once per year;
-General record keeping;

QUESTIONS

1) I note that there is no standard for phosphorus in the proposed regulation. Would the MOE criteria for phosphorus still apply at this site? Would there be potential for other site specific parameters? Would the effluent criteria change depending on the body of water being discharged to?
2) When would a request for transitional authorization need to be filed?

Please feel free to add comments, corrections or direction where required.

Thanks,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

From: Michajluk,Shawn [Ontario] [mailto:Shawn.Michajluk@ec.gc.ca]
Sent: May 25, 2010 07:49
To: Dan Currie
Subject: RE: New EC wastewater regulation

I suggest you contact Nathalie Osipenko of the MOE Thunder Bay regional office (nathalie.osipenko@ontario.ca; 807-475-1703). She is familiar with the proposed federal regulations and how it might impact the approvals process.

Shawn Michajluk
Head, Public Sector Unit | Chef Secteur Public
Environmental Protection Operations Division – Ontario | Division des Activités de protection de l'environnement – Ontario

Environmental Stewardship Branch | Direction générale de l'intendance environnementale
Environment Canada | Environnement Canada
4905 Dufferin Street | 4905, rue Dufferin
Toronto (Ontario) M3H 5T4
shawn.michajluk@ec.gc.ca

Telephone | Téléphone 416-739-5888
Facsimile | Télécopieur 416-739-4342
Government of Canada | Gouvernement du Canada
Website | Site Web www.ec.gc.ca

-----Original Message-----
From: Dan Currie [mailto:DCurrie@enl-tbay.com]
Sent: May 21, 2010 2:21 PM
To: Michajluk,Shawn [Ontario]
Subject: New EC wastewater regulation

Hi Shawn,

Some information on the new regulations and your contact information was provided by Michelle McChristie at the MOE.

As you may know, we are working for the Township of Red Rock, presently conducting an Environmental Assessment to upgrade/replace their existing wastewater treatment plant. It appears that the new regulations will have an impact.

With respect to the new EC regulations, I have one question at this time:

1) How does this affect the approvals process currently in place with the MOE? Will there be a new approvals process?

Thanks,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

This message, including any attachments, is privileged and may contain confidential information intended only for the person(s) named above. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by reply email and permanently delete the original transmission from use, including any attachments, without making a copy.

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Dan Currie

From: Kathy Bemben
Sent: May 31, 2010 09:32
To: Dan Currie; Gundry, Michael; Aniye, Meseret
Subject: FW: Letter from MOE
Attachments: letter1 (1).JPG; letter2.JPG

From: Mic Groulx [mailto:micgroulx@shaw.ca]
Sent: Monday, May 31, 2010 9:22 AM
To: 'Nancy Gladun'
Cc: Kathy Bemben
Subject: FW: Letter from MOE

Nancy: Please forward to Shairose

Kathy & Shairose: This is the latest from Watertek.

From: Kevin Muloin [mailto:kevinmuloin@sympatico.ca]
Sent: May 27, 2010 10:48 AM
To: micgroulx@shaw.ca
Cc: jwhite@watertek.org; Cameron Burgess; Tim Pile
Subject: Letter from MOE

Hello Gary,

Please find attached the letter from Ms. Dumais at the MOE Approvals Branch, stating that EVC is approvable and should be considered a complete process as it was before. Please feel free to share this with your consulting engineers.

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

Information from ESET NOD32 Antivirus, version of virus signature database 5157 (20100531)

The message was checked by ESET NOD32 Antivirus.

Under the program, the Ontario Ministry of the Environment will assess/evaluate a new technology by reviewing the information and data submitted by an applicant, conducting relevant literature searches on similar technologies and utilizing relevant engineering and technical knowledge/expertise of reviewing engineers and/or scientists. Following the assessment, a NETE "Opinion Letter of Technology Assessment" or a "Certificate of Technology Assessment," will be issued to the applicant commenting on the technical merits of the technology, its potential to meet jurisdictional environmental standards, and potential areas of application.

The opinion letter or certificate will expedite the engineering review for approval of site-specific application of new technologies in Ontario and will be expected to help build confidence among municipalities and industries on the use of new technologies. The opinion letter or certificates are also expected to greatly assist in the marketing of new technologies both in Ontario and abroad.

Another option for you is to undertake a pre-submission consultation with MOE Regional Technical Support Services along with the proponent (Municipality) and identify the quality of the effluent that the proposed technology would be able to achieve taking into consideration the quality of the receiving environment. Once the proponent has accepted a desired technology as a viable option, the proponent may propose it as part of the application package and it is at this stage the EAAB is in a position to review it as part of its mandate.

I trust that this response has provided you with some direction as requested and has satisfied your request.

Sincerely,

Doris Dumais
Director – Approvals Program

c:
The Township of Red Rock – Mayor Gary Nelson
MOE Regional District Office – Thunder Bay District Office

Ministry of the Environment

Environmental Assessment and Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8457

Ministère de l'Environnement

Direction des évaluations et des autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Téléc. : 416 314-8457

Ontario

May 18, 2010

Mr. Jeff White
Northern Watertek Corporation
115 Deerfox Drive,
Ottawa. ON
K2J 4W4
jwhite@watertek.org

Dear Mr. White:

This letter is response to your recent requests of the Ontario Ministry of the Environment (MOE) Environmental Assessment and Approvals Branch (EAAB) for a written statement regarding approvals and EVC technology. I understand that we have already provided you with a response regarding the approval application process. The MOE will continue to consider EVC technology as part of the Certificate of Approvals application process as done in the past.

As you are aware. the mandate of the EAAB is to examine each facility proposal individually through the Certificate of Approval process, to ensure that the environment is not adversely affected by site specific activities. It is the responsibility of owners and operators of facilities to apply for and obtain Certificates of Approval as required. The decision to consider or reject any technology as part of the application for a certificate of approval is that of the proponent.

Approval of an application of technology is granted on a project/site specific basis when the technology is presented to the Environmental Assessment and Approvals Branch as the preferred option as part of the proponents application along with detailed design and assessment documentation.

To assist you in an evaluation of the EVC technology, I suggest that you contact the Standards Development Branch - New Environmental Technologies Evaluation (NETE) Program of the Ministry of the Environment (Nete@ontario.ca). The purpose of the NETE program is to assist the development, marketing and application of new environmental technologies. The program is specifically oriented to assist companies with technologies which are new to Ontario but is also applicable to companies wishing to market existing technologies outside of Ontario.

Dan Currie

From:	D Currie
Sent:	June 2, 2010 12:06
To:	'kevinmuloin@sympatico.ca'; 'Shairose Alarakhia'; Aniye, Meseret; 'Gundry, Michael'; Mic Groulx; David Pettersen
Cc:	Kathy Bemben (kbemben@enl-tbay.com)
Subject:	Red Rock WWTP EA
Attachments:	NWT approach clarification questions.xlsx; Scan001.pdf

Kevin,

Thank you for your phone call yesterday, sorry I was unavailable.

With respect to your questions...

1) raw sewage quality - please see attached summary.

2) The Township did forward the letter from the MOE dated May 18, 2010 signed by Doris Dumais, Director of the Approvals program. Our understanding from the letter is that the MOE will review the EVC process on a site specific basis.

3) We have not yet filed the Environmental Study Report (ESR) for public review. The 30-day comment period from the Public Consultation Centre (PCC) expired on May 28 and we are now making preparations to complete the report. However, as part of the Class Environmental Process the Township is required to follow, we would like to evaluate the EVC process further as a potential treatment alternative. In order to conduct a fair evaluation of the EVC process the information previously requested would be appreciated. In order to keep the project moving forward we request the receipt of this information by June 11, 2010.

I will call you later in the day to follow up.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Table 2.3. Historical Raw Sewage Characteristics

Period	Parameter		
	Suspended Solids (mg/L)	BOD_5 (mg/L)	Total Phosphorous (mg/L)
2006	110.9	84.6	3.0
2007	125.8	95.8	3.1
2008	72.3	75.3	2.3
Average	103	75	2,7

Red Rock Wastewater Treatment Plant Class EA.

Clarification Questions On the Northern Watertek Approach for The Red Rock Wastewater Treatment Plant

1 Design should be based upon average day flow of 1,272 m3/d to fairly compare with other treatment processes. Update all costs based on this flow.

2 re-size the lagoon size based on the 1,272 m3/d. It is preferred to have two parallel cells in stead of one cell (cell 2).

3 compressor
motor power (kw) =
overall efficiency =
estimated hour of operation annually =

4 high pressure pumps (P5 and P6)
motor power (kw)/pump =
motor efficiency =
pump efficiency =
overall efficiency =
total hours of operation annually =

5 recirculation pump d/s RIF (P4)
motor power (kw)/pump =
motor efficiency =
pump efficiency =
overall efficiency =
total hours of operation annually =

6 pump d/s lagoon pump (P3)
motor power (kw)/pump =
motor efficiency =
pump efficiency =
overall efficiency =
total hours of operation annually =

7 volume and area of various tanks
snow storage tank area = volume =
cell No.1 area = volume =
cell No.2 area/cell = volume/cell = No. cells =

8 what is the design basis for the snow storage area?

9 cost estimates should take into account the disposal costs. If spray irrigation is chosen as a final disposal alternative, storage will be required to keep all the flows until the weather allows to spray on the land. I did a quick calculation . Based upon the MOE the maximum days one can spray irrigate on a land is 100 days per year and 55000 L/ha.d. if i assume 70 % of the influent will be evaporated, I will need 25 ha of irrigation land that has to be fenced and protected from run off .

10 how will the effluent be disinfected during the non- freezing period?

11 If the water table at the site where spray irrigation will be applied is above 2 m, underdrain will be required. Does the cost estimate take into account this?

12 What is the noise level in dB about 100 m of where the compressor and pumps will be installed? At the discharge of the snow gun?

Dan Currie

From: Dan Currie
Sent: June 2, 2010 13:40
To: 'jwhite@watertek.org'; 'kevinmuloin@sympatico.ca'
Subject: FW: Red Rock WWTP EA
Attachments: NWT approach clarification questions.xlsx; Scan001.pdf

Jeff,

I forgot to copy you on this email, so I am forwarding it now.

I spoke with Kevin a few minutes ago and he notes that some information may be available tomorrow.

Regards,

Dan

-----Original Message-----
From: Dan Currie
Sent: June 2, 2010 12:06
To: 'kevinmuloin@sympatico.ca'; 'Shairose Alarakhia'; Aniye, Meseret; 'Gundry, Michael'; Mic Groulx; David Pettersen
Cc: Kathy Bemben (kbemben@enl-tbay.com)
Subject: Red Rock WWTP EA

Kevin,

Thank you for your phone call yesterday, sorry I was unavailable.

With respect to your questions...

1) raw sewage quality - please see attached summary.

2) The Township did forward the letter from the MOE dated May 18, 2010 signed by Doris Dumais, Director of the Approvals program. Our understanding from the letter is that the MOE will review the EVC process on a site specific basis.

3) We have not yet filed the Environmental Study Report (ESR) for public review. The 30-day comment period from the Public Consultation Centre (PCC) expired on May 28 and we are now making preparations to complete the report. However, as part of the Class Environmental Process the Township is required to follow, we would like to evaluate the EVC process further as a potential treatment alternative. In order to conduct a fair evaluation of the EVC process the information previously requested would be appreciated. In order to keep the project moving forward we request the receipt of this information by June 11, 2010.

I will call you later in the day to follow up.

Regards,

Dan

Dan Currie, C.E.T.

Dan Currie

From: Kevin Muloin [kevinmuloin@sympatico.ca]
Sent: June 4, 2010 09:12
To: Dan Currie
Subject: FW: O&M COSTS RR

Hello Dan,

I don't know if this helps. This is the first I received from Jeff White and there will be more to come.

Kevin Muloin

From: jeff white [mailto:jwhite@watertek.org]
Sent: Friday, June 04, 2010 1:13 AM
To: Kevin Muloin
Subject: O&M COSTS RR

Based on 2200 hrs of operation during winter from our WX models submitted
3800 hrs of operation during summer from our WX models submitted previously
301,000 m3/yr influent

3 Categories of power consumption-

a) Continuous
Primary lift pumps
Misc heat lite computer power etc----------6386.04$

b) Winter for treatment plant----------37,995.96$

c) Summer for treatment plant----------17,287.07$

Total power consumption----------61,669.07$

Normally as a check power under such circumstances is 60% of the total cost
The projected estimate would be----------102,700$

Actual

Energy ---------- 61,669.

Labour part time -weekly inspections----------20,000$

Maintenance and disposibles(grease oils -cleaning etc) ----------12,000$* note a portion of this expense is accrued as non cash expense.

Lab Testing of monitoring well samples----------8000$

TOTALS ---------- 101,669$ or 0.338$/m3

Notes;
This based on 301,000 m3/yr influent which is a peak measurement recorded and not an average flow.

Average flow currentlyappear to be 77% -80% of this number.

It is NWC intention to investigate the removal of excessive flows by sewer inspection/ repairs over the 5 year period of operation-This would result in a flow reduction of upewards of 40%, based on current numbers.

This will reduce costs to a range of 87,000$/yr to 77,000$/yr

June 7th, 2010

Engineering Northwest Ltd.
200 S.Syndicate Ave, Suite 301
Thunder Bay, ON P7E 1C9

Attention: Dan Currie, C.E.T.
Re: Red Rock Township – Waste Water System

Dear Mr. Currie:

Thank you for your recent e-mail informing me that notification went to our H.O. in Ottawa. This branch was moved to Toronto a year ago and must have fallen through the cracks. However, in the future please forwarded all correspondence to our Toronto office and copied to myself in Thunder Bay.

We write in response concerning the above project. Projects like these trigger the Crown's duty to consult and accommodate our Aboriginal title and rights, in keeping with the honor of the Crown and the promise of s.35 of the Constitution Act, 1982 to the Metis Nation.

The Metis Nation has Aboriginal rights to the lands, water and natural resource within the area that your Project is proposed. Therefore, you are required to meaningfully consult with the potentially affected rights-bearing Metis community, as represented by the Metis Nation of Ontario ("MNO"). Meaningful consultation on your Project will not have taken place by our merely having noticed an advertisement to attend an open house information session.

You should also be aware that the rights-bearing Metis communities are regional in size and scope and our traditional territories are expansive. Therefore, in order to ensure the duty is discharged to the entire rights-bearing Metis community, we may need to work with other MNO Community Concils and other governance structures within the MNO to ensure all members of the potentially affected rights-bearing Metis community have the opportunity to be consulted.

The courts have made clear that when our Aboriginal right may be affected, we must be engaged early, in a meaningful way, for consultation to have been deemed to have taken place. Any consultation that takes place must be undertaken with the intention of substantially addressing our concerns and interests.

It is our position that a meaningful consultation process has five component parts.

I. Receipt of Notice – there must be adequate notice to us that you are proposing a development Project (with Crown authorization). The notice must come to us because of our Aboriginal rights in the affected area. To date we have receive no notice from your Corporation.

2. Funding - the Crown and/or the developer must fully fund the rights-bearing Metis community's participation in the consultation process. Funded participation includes, but is not limited to, research, analysis and the preparation of materials needed to determine the potential effects of the Project. It may also involve participation in environmental hearings, information meetings and consultation with our communities.

3. Information Gathering, Analysis and Exchange – the Crown and/or the developer must fully inform the rights-bearing Metis community about the Project. Only upon receipt of adequate funding and Project information, will the rights-bearing Metis community provide information to the Crown and/or the developer about our various spiritual, cultural and resource uses in the Project area.

4. Negotiations – Government and the developer must work together with us to understand how the proposed Project might affect our rights, culture,traditional way of life and economy.

a. If the Project is determined to have significant effects on Metis rights and interests that cannot be mitigated, it may not proceed.

b. If the Project's effects can be mitigated so that they minimally affect Metis rights and interests, we proceed to the accommodation stage.

5. Accommodation – As the Project proceeds, there is an ongoing duty on the Crown and the developer to work together with the rights-bearing Metis community to ensure that the Project acccomodates our rights, title, culture,traditional way of life and econ

Please note that communication with our staff for the purposes of collecting information, arranging technical studies, or developing your proposal for assistance, is not considered consultation.

The Metis Nation of Ontario is not against development. We would like Ministries, Industry and First Nation's to work with us in harmony. There are examples of poor communications or lack of understanding of the Metis rights in our communities, that have led to costly legal battles and stopping of projects until engagement of potential projects has been done.

Also, MNO has funding through our Training Initiatives Branch to work with proponents if employment opportunites are available.

At this stage, we would kindly ask you:

I. Consider us the same as any Aboriginal group with rights in the area of the Project, rather than just an "interested party"

2. Provide us with sufficient information to enable us to determine whether the Project may impact our Aboriginal rights.

We look forward to hearing from you.

Yours truly,

Cameron Burgess
Chair- Region 2 Consultation Committee
Thunder Bay and Area
The Metis Nation of Ontario
cameronb@metisnation.org

841 Brodie Street, North
Thunder Bay, Ontario
P7C 3V1

Copy to:
Melanie Paradis
Director – LRC Branch – Metis Nation of Ontario
75 Sherbourne St. Suite 222,
Toronto, ON M5A 2P9

Brian Tucker
Manager – LRC Branch- Metis Nation of Ontario

Director of Environmental Approvals Branch
Ministry of the Environment, 2 Clair Avenue West, Floor 12 A
2 St.Clair Avenue West, Floor 12A Toronto, On M4V 1L5

Dan Currie

From: Kevin Muloin [kevinmuloin@sympatico.ca]
Sent: June 8, 2010 00:30
To: Dan Currie
Subject: Red Rock
Attachments: 3 RED ROCK PROCESS_JS_June_7_FULL_PDF (1).pdf

Hello Dan,

Please find attached the remaining information from Northern Watertek. Please treat this document as proprietary.

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

9.0 EXHIBIT "C"

THE PROCESS AND ENVIRONMENTAL IMPACTS

FULL DOCUMENT NOT PRINTED DUE TO PROPRIETARY CONTENT

Dan Currie

From: Kevin Muloin [kevinmuloin@sympatico.ca]
Sent: June 10, 2010 09:54
To: Dan Currie
Cc: micgroulx@shaw.ca
Subject: Red Rock Draft

Hello Dan,

I have a question regarding cost projections in the draft for the four technologies mentioned. Do these projections include engineering fees and contingencies? The price quoted by Northern Watertek is inclusive of all costs. Also have you considered Present Value Financial calculations to predict the present value and savings in your projections? If this hasn't been considered, I thought this information may assist you in developing an accurate comparison. Do you have a date that the final document will be presented to the Red Rock Council?

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

Dan Currie

From: Mic Groulx [micgroulx@shaw.ca]
Sent: June 14, 2010 15:42
To: 'Kevin Muloin'
Cc: Kathy Bemben; 'Shairose Alarakhia'; JCasal@ocwa.ca
Subject: RE: Waste Water Treatment

Kevin: Thanks, but as I told you before ENL is the contact on the secondary treatment study and as such I have forwarded your information onto them and OCWA.

All our dealings regarding secondary treatment will be dependent upon the results and recommendations in the ESR.

From: Kevin Muloin [mailto:kevinmuloin@sympatico.ca]
Sent: June 14, 2010 1:34 PM
To: micgroulx@shaw.ca
Subject: Waste Water Treatment

Hello Mic and Kal,

Please find attached a final revision of the document that explains the process that Northern Watertek is proposing for Red Rock.

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5196 (20100614)
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The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5196 (20100614)
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9.0 EXHIBIT "C"

THE PROCESS AND ENVIRONMENTAL IMPACTS

FULL DOCUMENT NOT PRINTED DUE TO PROPRIETARY CONTENT

ENL

Engineering Northwest Ltd.

Consulting Engineers

June 16, 2010

PN 09080 ENV

Métis Nation of Ontario
841 Brodie Street North
Thunder Bay, ON
P7C 3V1

Attention: Cameron Burgess - Chair Region 2 Consultation Committee

Dear Sir:

Re: Township of Red Rock
Water Treatment Plant Upgrades
Class Environmental Assessment Consultation

We are writing in response to your letter dated June 7, 2010 regarding consultation with the Métis Nation with respect to the Class Environmental Assessment being conducting for the Township of Red Rock Waste Water Treatment Plant upgrades.

As noted in our April 30, 2010 email to you, correspondence regarding the project was sent to the Métis Consultation Unit Head Office in Ottawa. You have subsequently noted that the office was moved to Toronto approximately one year ago. We apologize for any inconvenience this has caused and we have since added your local Thunder Bay office and the Toronto office to our contact list as per the addresses in your letter. We would like to advise that the address shown on the Métis Nation of Ontario website still references the Ottawa office.

We have attached the following information for your review:

- The Public Comment Invited notification dated January 19, 2010. This document was delivered to your former Ottawa office;
- The notice of Public Consultation Centre dated April 13, 2010. This document was delivered to your former Ottawa office;
- A copy of the display material presented at the Public Consultation Centre.

The Environmental Study Report (ESR) is anticipated to be completed and placed on public record for review this summer. You will be provided due notice when the document is available and how and where it can be accessed for review.

We anticipate that the information provided herein sufficiently addresses your request for information. Should you require further information or if there are any concerns you may have, please contact the undersigned.

Yours truly,

ENGINEERING NORTHWEST LTD.

D. Currie, C.E.T.
Encl.

Cc. M. Groulx, Township of Red Rock
J. Casa, OCWA
M. Paradis, Métis Nation of Ontario (Toronto Office)

Filename: E:\ENL\PN09080\Environ\Public Consultation\Comments Received\comments after PCC\Metis Nation-June16-10.doc

ENL

Engineering Northwest Ltd.

Consulting Engineers

TELEPHONE MESSAGE ☐ MEMO TO FILE ☒

Recorded by: Dan Currie
Talked with: Kevin Myloin
Company: Superior Green Consulting
Telephone:

Date: June 16/10
P.N.: 09080
Project: Red Rock WWTP

Circulate: ~~Dan~~ File

Message:

He Called regarding his email of June 10/10 (attached)

(1) When is the report to be ~~Dated~~ submitted to council?
- I indicated it would be summer July or August when the ESR is placed on Public Record for review

(2) He noted his ~~costs of~~ $8 million were all inclusive, no extra's. Did ~~am~~ the costs presented in other tech. include Engineering + contingencies.?
- I indicated they did.

(3) How will the costs be evaluated?
- I indicated they would all be done the same.

(4) Did we need any further info.?
- Indicated I didn't think so, but would advise if we did.

Melissa Price

From: Dan Currie
Sent: June 24, 2010 3:40 PM
To: cameronb@metisnation.org
Subject: Red Rock Wastewater Treatment Plant Environmental Assessment

Mr. Burgess,

This is to confirm our telephone conversation earlier this afternoon.

We understand that you have received our letter dated June 16, 2010 with respect to the above project and do not require any additional information at this time.

As noted, you will be advised, in writing, when and where our final report will be available for review.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Dan Currie

From: Dan Currie
Sent: June 24, 2010 09:12
To: 'Kevin Muloin'
Subject: RE: Red Rock Class Environmental Assessment for the Waste Water Treatment Upgrade

Kevin,

The Public Consultation Centre (PCC) was held in Red Rock on April 28, 2010, so yes approximately 60 days will have elapsed on June 28.

You will be provided notice, in writing, when and where the document will be available for public review.

Regards,

Dan

From: Kevin Muloin [mailto:kevinmuloin@sympatico.ca]
Sent: June 23, 2010 16:25
To: Dan Currie
Subject: Red Rock Class Environmental Assessment for the Waste Water Treatment Upgrade

Hello Dan,

Am I correct in assuming that as of June 28th, sixty days have passed since the Public Consultation in Red Rock? I understand that the final report is to be made available on June 28, 2010. How can I access this document on the 28th?

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

Dan Currie

From: jeff white [jwhite@watertek.org]
Sent: June 28, 2010 01:52
To: Dan Currie
Cc: Kevin Muloin; Cam Burgess; Tim Pile
Subject: Red Rock
Attachments: NWC STATIONERY.doc

Please see the attached
Jeff White

June 28, 2010

Dan Currie
ENL Engineers
Thunder Bay
Re Red Rock WWTP upgrade

Dear Dan
We are carrying out a Comparative Present Value Financial Analysis on the information you sent us re various alternative costs, as you presented, to Red Rock.

We need a confirmation from you that engineering fees and contingencies are included in the figures given us---or they are not included.

Further: ENL nor AECOM are NOT to adjust our submitted price to Red Rock, in that it is a complete, FIXED price, engineering, contingencies etc all included. $8,795,460. plus taxes, where applicable.

We have had bad experience of late with engineering firms attempting to second guess us and increasing our submitted costs, for various self interest reasons.
The same goes for O&M costs- They are complete at an average of 85,000$ per year.

We guarantee those costs and have extended the warranty and guarantees of performance to 5 years.

We have agreed to operate the system at no cost to Red Rock for 5 years, with Red Rock involved in the operating company so as to ensure open transparent transfer of operating cost information..

The lack of inquiry by ENL/AECOM to data bothers me to the extent that misrepresentation of the facts is a possibility.
We would be very unhappy if that were the case.

Sincerely,

NORTHERN WATERTEK CORP.,

Jeffrey A. White P.Eng.

613 255 2890

NORTHERN WATERTEK CORPORATION
115 Deerfox Drive,
OTTAWA, ON., CANADA
K2J 4W4

315 608 7541 jwhite@watertek.org

Dan Currie

From: Kevin Muloin [kevinmuloin@sympatico.ca]
Sent: June 28, 2010 11:00
To: ljoy@liberal.ola.org
Cc: Cameron Burgess; Tim Pile; jwhite@watertek.org; Dan Currie
Subject: Red Rock

Hello Larry,

I want to thank you and Mike for your assistance with this situation. We received correspondence from Doris Dumais at M.O.E Approvals Branch and she has confirmed that we are in fact approvable in Ontario. We Have forwarded the letter from Ms. Dumais to Engineering Northwest Ltd. Sixty days have passed since the open house in Red Rock and we are anticipating the final report this week. We are hopeful that things can proceed in a timely manner.
Superior Green Consulting is pleased that this misunderstanding has been rectified and Northern Watertek technology is being considered for this job as it should have been.

Regards,

Kevin Muloin
President
Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario P0T1K0
Phone: 807-887-4585
Facsimile: 807-857-1289
Email: kevinmuloin@sympatico.ca

Dan Currie

From: Dan Currie
Sent: June 29, 2010 09:03
To: 'jeff white'
Cc: Kevin Muloin; Cam Burgess; Tim Pile
Subject: RE: Request

As per a previous telephone conversation with Mr. Muloin (June 16, 2010), the costs presented at the PCC include engineering fees and contingencies.

Dan

From: jeff white [mailto:jwhite@watertek.org]
Sent: June 29, 2010 08:52
To: Dan Currie
Cc: Kevin Muloin; Cam Burgess; Tim Pile
Subject: Request

Dan
I believe the request re engineering fees and contingencies are a simple request that can be answered by return e-mail.
We should like to finish our PV financial study so we can present it to RR
Please--may I have your response.
NORTHERN WATERTEK CORP.
Jeffrey A. White P.Eng.

ENL

Engineering Northwest Ltd.

Consulting Engineers

June 30, 2010

PN 09080

Superior Green Consulting Inc.
200 Fish Hatchery Road
Dorion, Ontario
P0T 1K0

Attention: Mr. Kevin Muloin
President

Dear Mr. Muloin:

Re: Township of Red Rock
Wastewater Treatment System Upgrades
Class Environmental Assessment
EVC Process Evaluation

We are writing to confirm the correspondence issued and received for the above project with respect to the Envapocrystallization (EVC) process by Northern Watertek represented by Superior Green Consulting.

A proposal was submitted to the Township of Red Rock by Northern Watertek dated April 2009 to design and build an EVC system for the treatment of the municipal wastewater. This information was forwarded to Engineering Northwest Ltd. by the Township at the outset of the Class Environmental Assessment (EA) process. Additional information was provided to ENL by Northern Watertek on the EVC process via email on Feb. 8, 2010. The information was reviewed and as part of the Class EA evaluation process, an opinion on the EVC process was obtained from the Ministry of Environment (MOE). The MOE advised that the EVC process was considered as an effluent disposal method of treated effluent but not a treatment process.

A Public Consultation Centre (PCC) was held on April 28, 2010 to present the initial Class EA study findings to the public and interested parties. Several treatment processes were evaluated as alternatives to address the requirement for provision of secondary treatment for Red Rock's Wastewater Treatment System. The information obtained from the MOE on the EVC process was presented on one of the display panels at the PCC.

During the PCC representatives of Superior Green noted that the display panel describing the EVC process did not include information on the treatment process upstream of the discharge point, and indicated that information could be provided from the MOE indicating that EVC was an approvable treatment and disposal process. Additional technical information was requested by ENL to further assist in the evaluation of EVC as part of the Class EA process. We had encouraged any comments to be submitted in writing, and as noted on the comment sheets provided at the PCC, comments were requested to be submitted by May 28, 2010.

Further to the PCC, ENL sent Superior Green an email on May 11, 2010 confirming the request for more detailed information regarding costs and design of the EVC process as well as the approval documentation from the MOE suggested above. The design and costing information was requested to be based on an average day design flow of 1,272 m^3/d, such that the EVC system could be evaluated in comparison with the other alternatives in a similar fashion and at a similar flow rates as required by the Class EA process. The average day design flow of 1,272 m^3/d was determined based on historical flows and forms the basis for the design of the new treatment facilities, and has been agreed to by the Township for this project.

200 South Syndicate Ave., Suite 301, Thunder Bay, ON P7E 1C9 Telephone (807) 623-3449 Fax (807) 623-5925 Email: general@enl-tbay.com www.enl-tbay.com

The Township forwarded ENL a letter dated May 7, 2010 from Northern Watertek, advising that the cost for a Turn-key design build EVC system was $8,795,460, which includes 5 years of operating costs. A breakdown of the capital and operating costs was not provided.

Northern Watertek received a letter dated May 18th from Doris Dumais, Director of the MOE Approvals Program, which indicated that the EVC process would be considered as part of a Certificate of Approval application process, and this letter was forwarded to the Township by Superior Green Consulting on May 27, 2010. The letter also discusses the New Environmental Technologies Evaluation program (NETE) of the MOE, indicating that an "Opinion Letter of Technology Assessment" or a "Certificate of Technology Assessment" would expedite engineering review and build confidence with the municipalities and industry for which the technology is targeted. To date, no such MOE Opinion Letter or Certificate on the EVC process has been received by the Township or ENL.

ENL has received additional operating cost information and further technical details of the EVC process through emails sent by Superior Green and Northern Watertek. We note this information is based on a flow rate that differs from the average day design flow of 1,272 m^3/d.

We will be using the information provided, copies of which are attached for reference, in the assessment and evaluation of the EVC process as part of the Class EA for the Township of Red Rock.

Yours very truly,

ENGINEERING NORTHWEST LTD.

K. Bemben, P.Eng.
KB:dc
Encl.
Cc. Jeffrey White – Northern Watertek Corporation
Dave Pettersen – Township of Red Rock
Mic Groulx/Kal Pristanski – Township of Red Rock
Jose Casal – OCWA
Mike Gundry - AECOM

E:\ENL\PN09080\Correct\EVC-letter.docx

Kathy Bemben

From: Dan Currie
Sent: April 27, 2011 10:50 AM
To: David Pettersen; Kal Pristanski; Gundry, Michael; Aniye, Meseret; Jose Casal; Bob Dormer
Cc: Kathy Bemben
Subject: EVC list of questions
Attachments: EVC info request final-April 26-11.pdf

Good Morning Kal,

Attached is the finalized list of requested info. and questions for Northern Watertek.

We would be happy to meet with Mr. White to clarify and/or discuss.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Dan Currie

From: Kal Pristanski [cao@shawbiz.ca]
Sent: April 27, 2011 12:03
To: 'Jeff White'
Cc: Dan Currie
Subject: Questions Attached
Attachments: EVC info request final-April 26-11.pdf

Good morning Mr. White:

Please find attached a list of questions put together by ENL & OCWA and reviewed by ourselves to facilitate the preparation of the final ESR. We would appreciate responses within 2 weeks. If more time is required please advise.

I have included Dan Currie from ENL in this e-mail if technical clarification is required on any questions. Feel free to contact him directly.

Looking forward to your responses.

Thank you,

Kal

Kal Pristanski, CAO
Township of Red Rock
www.redrocktownship.ca

Information from ESET NOD32 Antivirus, version of virus signature database 6075 (20110427)

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

Township of Red Rock
Red Rock Wastewater Treatment
Information Needs To Evaluate the EVC Process

The following information is reviewed to assist in evaluating the EVC process and updating the ESR.

Design Criteria

Average Design Flow	900 m^3/day
Peak Design Flow	4,540 m^3/day

Influent Sewage Characteristics

	Contribution from Current Plant Service Population	Contribution from Additional Population (2011 -2031)	Existing Septic Tanks	Combined Contributions
Raw BOD (mg/L)	91	170	7,000	122
Raw Total Suspended Solids	97	200	15,000	148
Total Phosphorus (mg/L)	2.7	7	250	4
TKN (mg/L)	40	40	700	41

Effluent Parameters

At point of discharge of the snow guns/spray irrigation

BOD/SS	25 mg/L
TP	1.0 mg/L
Ammonia/Nitrates	Meet MOE Reasonable Use Criteria at property limits

Information Needs

1. EVC snow storage area required inclusive of buffer zone between treatment site and residential area
2. Spray irrigation area required
3. Snow making rate and average number of days for snow making
4. Spray irrigation volumes and number of days of spray irrigation
5. Lagoon storage requirements for storage between snow making seasons
6. Design pressure and flow rates for the snow making system including the pumps and the compressor
7. Energy used by the snow making system (pumps and compressor) in kWhr/yr
8. Number and height of snow towers
9. Equipment details and unit process sizing for the treatment system upstream of the snow making guns/spray irrigation
10. The energy requirements for the treatment system upstream of the snow making guns in kWhr/yr
11. Expected effluent quality upstream of the snow making/spray irrigation system both for winter and summer
12. Capital cost of the snow making//spray irrigation system
13. Capital cost of the treatment system
14. Clarify the depth of snow, the snow storage area is based on

15. What is the noise level at the gun discharge
16. How is disinfection addressed during summer discharge period
17. How are peak flows of 4,540 m^3/d addressed in the pumping and forcemain sizes
18. What are the soil condition assumptions for the sizing of the snow/spray irrigation laydown area and general construction of the system at the site? How will soil conditions affect the sizing and cost of construction?
19. What are the operating costs of the EVC process? What are the daily operator requirements, how many hours per day? Chemical costs? Sampling costs?
20. What is the expected life span of the equipment, guarantees/warranties etc.?
21. Are there any proprietary components that must be purchased/serviced from Northern Watertek when in need of replacement or repair?
22. The MOE may not approve a single train treatment system – do we need redundancy?
23. What are the guarantees on the process performance?
24. Is insurance and bonding included in the estimated costs for the design/build/operate proposal? If not, what are these costs?
25. Please detail all items that are included in the price of the system and those that are not specifically included, i.e. fencing of the site, forcemain extension, access roads, site servicing gas, communication, electricity, additional studies, demolition of existing plant etc.
26. Is it possible to use the existing mill lagoon in the EVC process?
27. The only equipment to be re-used at the existing treatment plant site is the pumping station. Existing primary tanks are not to be used in the new process.
28. What are the potential wind effects? How will this affect residents? Odours? Overspray? Drifting?

Dan Currie

From: David Pettersen [davidjmp@shawbiz.ca]
Sent: May 2, 2011 11:45
To: 'Jeff White'
Cc: Kal Pristanski; Dan Currie
Subject: RE: Lift Station.

Hi Jeff, I was away Friday and didn't see you emails till this morning.
As per you earlier question we have never , to my knowledge had manholes leading to the plant overflow due to increased flow. Manholes on mill property (after our plant) have over flowed but I believe that is due to the fact that our outflow pipe was reduced to 10"ø in a manhole on mill property.

As far as the 50% over 8 hours I'm not sure where that comes from. I've measured flows at the peak and been by-passing in excess of 12 hours in the past but nothing significant in the last few years. In any event these peak flow situations are not common. I think, and if it is critical I can look back, that there may only a few years where I had more than one bypass event.

As far as the leaks there has been some discussion about this in the past. We know a lot of the water comes from home owners foundation and roof drain. In addition we have potable water bleeders that contribute to the inflow. A new revelation popped up just recently during a rainfall. The plant operator advised me that a line coming from the mill property intended to bring their domestic sewage to us was flowing quit quickly even though there are no employees to speak of working at the mill. I'm starting to wonder if there is a significant infiltration leak on that line. Unfortunately the flow meter on that line no longer works so I'll be forced into doing a little bucket engineering next rainfall to approximate the flow coming from that pipe.
Hope this helps.
David Pettersen
Public Works Superintendent
The Township of Red Rock
Box 447
Red Rock, Ontario
P0T 2P0
Ph 807-886-2524
Fax 807-886-2793
e-mail davidjmp@shawbiz.ca

From: Jeff White [mailto:jwhite@watertek.org]
Sent: April-28-11 3:46 PM
To: 'Dave Pettersen'
Cc: Janusz Szpaczynski; David Fisher; 'Sheriff, Scott (ENE)'; Kevin Muloin
Subject: Lift Station.

OK Dave \ Thinking cap on--What I am looking to you for is gut feelings only.

Design procedures at this rate of flow--
Based on 4500 m3/d-Peak Flow--measured and estimated---

50% will be experienced over 8 hours that is2250 m3/2 =4.6875 m3/min =1238 usgpm

HP for such a pump is max 75 hp and this is a system that is used --what --20 days per year max???? com,ment pls.

We would build a retention facility of 30 minutes or 140 m3 buried underground with pumps on top. enclosed.
This would be pumped to the lagoons at the mill site 1.2 Kms away at 65 psi discharge pressure.
This will handle the 4500 m3/day peak.
Then we will look for the bloody leak--Maybe its at the far end of the line --and that's not the first time I have found that ocurrance. This is going to be fun.

This station will then handle a total of 6890 .625 m3/d max.

Comments ?????

This is based on your observation of the two pipes flowing into one manhole even during this spring peak flow.

This is also a mix of accepted peak flow design procedures.

I want you to be part of the design team as much as possible --Then you'll have an easy job assisting us to build this system and operating it.
Jeff

Dan Currie

From: David Pettersen [davidjmp@shawbiz.ca]
Sent: May 5, 2011 11:55
To: 'Jeff White'
Cc: Kal Pristanski; Dan Currie
Subject: FW: Emailing: Pipeline Option B May 4_2011_4 am_PDF
Attachments: Pipeline Option B May 4_2011_4 am_PDF.pdf

It's an interesting proposal Jeff. I believe the flow direction during the mill days was reversed with flow entering at B3 but this may not affect your design. Also I've been told that the pond at B4 was rubber lined because it contained black liquor. These items may not be significant to you but one thing that causes some concern is the tower locations. I believe we were wanting them to be closer to the mountain to free up land for any potential future use. Just some comments

David Pettersen
Public Works Superintendent
The Township of Red Rock
Box 447
Red Rock, Ontario
P0T 2P0
Ph 807-886-2524
Fax 807-886-2793
e-mail davidjmp@shawbiz.ca

From: Jeff White [mailto:jwhite@watertek.org]
Sent: May-04-11 7:20 AM
To: Gary Nelson; 'Dave Pettersen'; 'Sheriff, Scott (ENE)'; Jordan, Paul (ENE)
Subject: Emailing: Pipeline Option B May 4_2011_4 am_PDF

This is our latest thinking following the receit of the information sent us on soils by Paul J.

The circumvention of the line around the chip storage area was to avoid all the wiring, pipelines and buried utilities if we went through the mill property

Jeff White

The message is ready to be sent with the following file or link attachments:
Pipeline Option B May 4_2011_4 am_PDF

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Dan Currie

From: David Pettersen [davidjmp@shawbiz.ca]
Sent: May 6, 2011 11:57
To: 'Jeff White'
Subject: RE: Emailing: Tower Line-MCB location

Yup the snow is pretty much all gone but that doesn't mean it won't snow tomorrow.
Take care and have a good weekend as well.
Dave

From: Jeff White [mailto:jwhite@watertek.org]
Sent: May-06-11 10:56 AM
To: David Pettersen
Subject: Re: Emailing: Tower Line-MCB location

Towers are easily moved to new locations--only the pipeline is left in place.
The options for cleanup of the limepit area are few and expensive--What we are proposing is not.You can not use the site until it is cleaned up as it does not pass reasonable use criteria under the law and in fact is considered hazardous under the law in all its versions. Hauling the contaminated soils away is not an option as a hazardous dump does note exist nearby. What we have in mind will work --it simply takes time.
If Red Rock has some plans for this site -perhaps it might be a good idea to let us know before we complete the ENL bevy of questions. Have a good weekend.
Perhaps I should come up to Red Rock and have a good look at the site now that the snow is gone--or is it??

regards
Jeff White
613 255 2890

----- Original Message -----
From: David Pettersen
To: 'Jeff White'
Sent: Friday, May 06, 2011 9:00 AM
Subject: RE: Emailing: Tower Line-MCB location

Thanks for the update Jeff.
Dave

From: Jeff White [mailto:jwhite@watertek.org]
Sent: May-06-11 5:20 AM
To: 'Dave Pettersen'; Janusz Szpaczynski
Subject: Emailing: Tower Line-MCB location

These are the two possible locations of The EVC towers etc. The one around the lime pit will and can be used to clean up that property. The towers can eventually be moved to the site along the mountain but that would take place several years from now when the property would be recovered from its contamination.
Jeff
Entry of the flow would be into B-3, the toB-2 Then to B-1 then to MCB and EVC*
Jeff
The message is ready to be sent with the following file or link attachments:
Tower Line-MCB location

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

Kathy Bemben

From: Kal Pristanski [cao@shawbiz.ca]
Sent: May 24, 2011 8:39 AM
To: Kathy Bemben
Subject: FW: Emailing: Ex_C_RED ROCK PROCESS_May_20_2011_Two_Options_V4
Attachments: Ex_C_RED ROCK PROCESS_May_20_2011_Two_Options_V4.pdf

Good morning Kathy...guess Dan is away...see below.

Thanx

kal

From: Kal Pristanski [mailto:cao@shawbiz.ca]
Sent: May 24, 2011 8:33 AM
To: 'Dan Currie'
Subject: FW: Emailing: Ex_C_RED ROCK PROCESS_May_20_2011_Two_Options_V4

Good morning Dan – not sure what this is about but apparently the questions will be answered shortly.

Kal

From: Jeff White [mailto:jwhite@watertek.org]
Sent: May 20, 2011 5:11 PM
To: 'Dave Pettersen'; Kal Pristanski; Gary Nelson
Cc: 'Sheriff, Scott (ENE)'
Subject: Emailing: Ex_C_RED ROCK PROCESS_May_20_2011_Two_Options_V4

This is Exhibit "C" the total document of what has been considered for RED ROCK. The Option"B" is the prefered option by Red Rock--ie location south of the mill site.
The Q&A's from ENL will be sent later today as this is a large package in its own.
Jeff White
The message is ready to be sent with the following file or link attachments:
Ex_C_RED ROCK PROCESS_May_20_2011_Two_Options_V4

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

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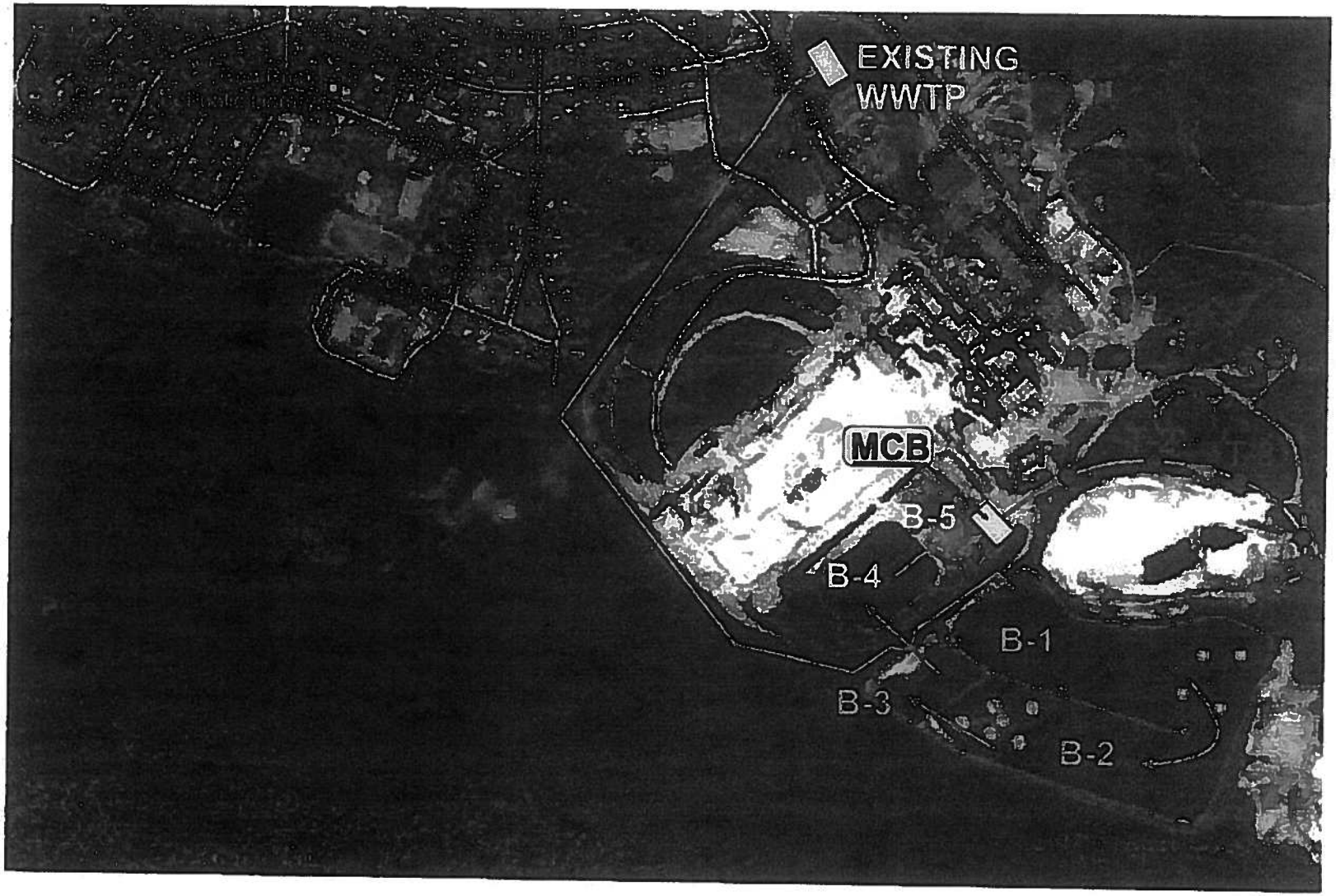
EXISTING
WWTP
MCB
B-5
B-4
B-1
B-3
B-2

9.0 EXHIBIT "C"

THE PROCESS AND ENVIRONMENTAL IMPACTS

FULL DOCUMENT NOT PRINTED DUE TO PROPRIETARY CONTENT

Kathy Bemben

From: Kal Pristanski [cao@shawbiz.ca]
Sent: May 30, 2011 8:14 AM
To: Kathy Bemben; 'David Pettersen'
Subject: FW: WQ&A"S RESPONSE
Attachments: Ex_C_RED ROCK PROCESS_May_28_2011_Two_Options_V6.pdf; Response to ENL questions----10 May-11.doc; EVC info request final-April 26-11.pdf

Kathy – not sure when Dan is back so fwding a copy to you.

Kal

From: Jeff White [mailto:jwhite@watertek.org]
Sent: May 30, 2011 1:41 AM
To: Kal Pristanski; Gary Nelson; Dan Currie
Subject: WQ&A"S RESPONSE

Pls note comments re proprietary information.

All the information is available either in the response or Ehibit"C" attached
respectfully submitted
NORTHERN WATERTEK CORP.
Jeffrey A. White P.Eng.

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RESPONSE TO QUESTIONS

2011-05-10
Mr. Gary Nelson, Mayor
Mr. Kal Pristanski, CAO
Mr. Dave Pettersen, Manager Red Rock Utilities
ENL Engineers-Dan Currie

We are submitting herein and attached, a response to the "Information needs to evaluate The EVC* Process proposed for The Township of Red Rock.
A Final adjusted layout at the request of Mayor Nelson and Council has now been completed using some of the facilities at the paper mill environmental treatment plant location to the SE of the mill site. Based on years of R&D at NWC and, in particular the Marathon Lagoons Renovation project, this use of some of the existing facilities can be made to work. The details of this facility are proprietary.

NWC has also been advised that the transfer of raw sewage and I and I waters should follow a route that circumvents the old wood storage area to avoid the buried utilities lines in the mill site area. While this line is longer in distance, it can be accommodated as per the attached layout. The actual length is virtually the same as in Option"A" see Fig 4, Option "B", Fig 14, Exhibit "C" attached.
A request has been made regarding the placement of towers and pipeline against the mountain. This can always be done but the installation in this regard would be very difficult due to rocky soils, boulders and elevation differences of almost 60 meters, to ensure proper drainage of the lines during shutdown. The only practical line, therefore, in such consideration would be at level 247 m asl. This is ,as noted, 60 m above the alternative site. --SE of the Lime storage area.—adjacent to the landfill disposal site.
Closer to the mountain, higher pressure pumps, and pipeline would be required-all at significant cost. Operating costs for energy would also be increased.
WE DO NOT RECOMMEND THIS OPTION.

As well the system, as recommended can be used to renovate the lime storage area in the immediate future.

WIND:
Wind is an important consideration in the EVC* Process. The site south of the Mill, as requested and recommended, is subject to unique air movement due to the mill location and the mountain. These anomalies will restrict air movement to a generally SE direction, when the prevailing wind is blowing from the NW. The system layout is designed to accommodate this occurrence. Controls on the system will open a "window" from a minimum of 3 Kms/hr to 45 Kms/hr, in order to contain the deposit of ice crystals to an area (Deposit area) predominately 30-45 meters to the SE and East of the recommended pipeline and tower layout. Air movement systems from the West and SW will have a diminished effect accordingly. See Fig 32, Exhibit "C". With the length of winter weather analyzed, a minimum of 1650 hours of very cold weather will be experienced virtually every year.

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Much more time during winter of cold weather is actually available. Refer to tables 11a and 11b of WX (weather) models in the Exhibit "C" attached.

LEVEL OF TREATMENT

It must be noted that the original specification for the system was to accommodate a secondary level treatment standard, with discharge into Lake Superior. This flies in the face of edicts from both Federal and Provincial levels of government recently including the Environmental Commissioner of Ontario..

As well, under The I JC agreements between Canada and the USA, discharge of waste water into the Great Lakes is to be reduced and eventually eliminated. Marine preserves are being established all along the north shoreline, where possible, of Lake Superior.

The NWC proposal accommodates these agreements and admonishments for less money, with the net result of a higher standards of performance environmentally—which is always far more acceptable than the disposal of partially treated waste water to precious water resources. Such disposal is to be avoided. The waterfront of Red Rock will be able to be classed a Marine Preserve without much adjustment of facilities, and the removal of the existing Waste Water Treatment Plant. There is NO DIRECT DISCHARGE TO LAKE SUPERIOR.

The standard of treatment of this system will be better than Tertiary standard, measured in ground water as there is no other discharge. Red Rock will pay no more for this advantage as such performance is a consequence of the design of this system. See table 2..Exhibit-"C"

The EVC* system proposed will have no direct discharge per se. as this is a land application on an engineered site to ensure no surface run off, whatsoever.

The MOE Thunder Bay, has provided documentation on soils and discharges from the lagoons as late as 2008. See Exhibit. "C"Appendix. These have been most valuable in assessing the performance of these facilities with a sanitary sewage loading being applied at 900 m3/d or 328,500m3/yr.as per ENL Q&A's specifications.

ENL's Q&A's

1- Approximately 1 hectare per tower(4) is needed to store snow and provide a spray impact area. The buffer here is extreme with the distance to residential areas of Red Rock, in the range of 1 km instead of the 100 m normally required. The Mill is also in between the town site and the WWTP facility in this Option "B". There is absolutely no concern with this configuration. See Figs. 14 and 17, Exhibit "C"..

2- The spray irrigation system is located in the same area as per Figures 5 and 17 .The Application area is 4-5 hectares. There is 12-25 hectares in this area so the impact area is easily located within the total area. The main precipitation is primarily 30-40 m from the tower in a median speed wind as per figure 32. Figures 29 and 36, Exhibit"C" detail

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the wind speed relationship, droplet size and distance. This is all taken into account in the system design to ensure no carryover into unwanted areas.
Spraying in summer is done by low level nozzles as indicated in PHOTO 15. Exhibit"C".

Towers are a maximum of 10m high and spray nozzles are only 2 m above ground level. Summer spray is therefore, limited to a few meters downwind.

2- This question indicates a misunderstanding of the concept of this system. Snowmaking is not measured in days but in hours, annually. Weather modelling, Tables 11a and 11b-indicates, based on a probability of 9.2 years out of 10, with 70% of the available hours in the 10th year indicates more than adequate hours available to handle approximately 1/3 of the annual load of waste water, with the balance being processed during non-freezing seasons. In fact freeze crystallization by design allows for an average of 1650 hours of winter operation in the coldest weather. This is most efficient as this operation will take place with the least expenditure of energy. The details of the system are shown on the system schematics Figs.3 and 10-Exhibit "C".

3- We are not concerned if we only get 1 hour of snowmaking as the balance would be processed by spraying highly treated waste water during non-freezing periods.. Spraying is designed for about 60-70% evaporation see Fig. 28. The same scenario exists in a "vice versa consequence" if only 1 hour of spraying was possible. The annual process loading is designed at 300,000m3. This obvious contingency is inherent in the concept of this system, the only process on the market to possess such a feature. This meets the MOE requirement for a contingency available "IF" the weather did not cooperate, which is highly unlikely. Also, the existing plant will be maintained so that the EVC* plant can prove its performance and reliability.

4- Spray Irrigation hours based on an average weather base 9.2 years out of 10, with 70% available hours in the 10th year, totals 3823 hours. The arbitrary MOE standards do not apply as the site is engineered to accept the applied waste water as spray.

5- For winter storage standard design calls for 60 days nominal retention. For summer the storage under MOE standards-is 25-30 days. This is acceptable to MOE as it is based on their standard design criteria. For winter operation the EVC* system really only requires 8 hours for solids settlement. NWC utilizes an additional 10 days minimum retention to accommodate weather anomalies. However, weather modelling for Red Rock, Nipigon and the Thunder Bay area indicates that 7.3 days accommodates all weather anomalies over the past 40 years. Source Environment. Canada.
Snowmaking is not practical due to excessive or no wind, outside the operational control "window" designed into the control system; a minimum of 3kms/hr to 45kms/hr.

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However, using the mill site lagoons indicated in figures 15 and 17-Exhibit "C",storage retention is some 550 days (minimum) at a cpacity of 530,000m3, based on ENL's 900m3/d as stated in the attached Q&A sheet.

6- Nozzle pressures information is proprietary but are 200-500 psig water pressure and 145 psig air pressure at the nozzle. This is a 2 Phase flow design.

7- Energy use by This EVC* system is estimated as follows:
Summer
Hours 3823
Peak demand 100 KW
Average peak with PF correction 87 KW
Average consumption level—74 KW
Kwhrs/year 3823 x .71 x .87 = 236,146.7 kwhrs/yr
Miscellaneous 5,000 Kwhrs/yr
Aeration estimated----------18,500 Kwhrs/yr
Total Kwhrs/year non freezing hours-----260,000 kwhrs per year. (Design)

Winter:
Hours 1650
Water pumps peak load 100 KW connected
Water pumps average demand 87 KW
Average consumption Demand 74 KW
Compressor connected load 138 KW
Kwhrs/ year 1650 x 138 = 227,708 Kwhrs/year

TOTAL Kwhrs per year --------- ----------487,708 Kwhrs/yr.

Note: this does not include the lift station adjacent to the Existing WWTP. See Answer to Question 10 below.

8- 4 towers at heights between 7-10 meters will be used.—winter only use.
Spray nozzles approximately 35 units at 2 meters height.

9- The only equipment upstream of the EVC* system is a new lift station and aeration in lagoon cells labelled B-1, B-2, and B-3.see Figs 14-and 15, Exhibit "C".
Based on specification by ENL of 900 m3/d average design (influent) and 4540m3/d peak flow (intermittent)-----and confirming information by Dave Pettersen re 21" line and 10" line conjunction last manhole near existing WWTP –no overflow recorded. As conditions-(annecdotal) never overflowed -a retention chamber of 140 m3 will be required using appriate design procedures.
Peak pump design 1250 usgpm at 150 ft head -75 HP
Standard flow pumps (2) 100% standby 150 Ft Head 15 HP each- 50 m3/hr.
Duplex System Retention facility(Lift Station) will also have a screening basket to

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be cleaned once a week. Optional, pump design -subject to detailed design, may be submersibles.

DESIGN BASED on 1/3-1/3rd override
ie) standard pump (one only) duplex system operates when level of retention reaches 1/3 level. When flows peak (spring runoff- heavy rain) reaches 2/3rds level large pump cuts in automatically-shutrs down when level cycle returns to normal. Pumps are all VTP style. Basket protected. Subject to use of submersibles. Liquid-level control by sonic devices

10-Operating time peak pump 1/3 time per day 15 days per year max.
Operating time regular pumps either /or 1/3rd time 350 days per year

Energy consumption calculations
Peak Pump 42.8 KW (based on Power factor correction of 0.87)
Average Flow % of Maximum 88%--ie 0.88
15 x 1/3 x 42.8 x 24 = 5,136 Kwhrs per year
Small pumps 350 x 8.567 x 24 = 23,988 Kwhrs per year
TOTAL ----------= 29,124 Kwhrs per year—Say 30,000 Kwhrs

11- See Figures 11 and 12 ---- Exhibit "C"

12- There is only one cost for this system. **--$ 8,979,460 $ CDN** plus taxes as applicable. This is a fixed price all inclusive of contingencies equipment design site services etc. THIS ALSO INCLUDES FIVE (5) YRS OPERATING COSTS (all costs)
This inclusive cost has been explained to MOE and Red Rock Township previously.

13- Included in the above.

14- Design calculations are based on an average depth of snow of 3.5 to 4.0 meters in height. It must be noted this is an average depth for calculations of base impact area required. Depths range from virtually ZERO to 6 meters. See Fig 32. Exhibit "C"
It is estimated that 90,000m3 of waste water to 100,000m3 (minimum) of waste water will be processed during the winter. Calculations consider losses due to evaporation and sublimation at 15%-Coversion Factor to snow volume at 2.08. is applied. (This is proprietary)
TOTAL SNOW VOLUME---160,000 m3
Average height 3.5m -4.0 m = 4.5 ha /tower

15- At the nozzle which is in a "vertical up" configuration, the noise level immediately below the tower is 87 Db down. At 250 meters distance the noise level is 45Db down This is below the sound level of the air movement (natural) of 47 Db down at 3kms/hr. In other words—the sound level is barely or undetectable at 250m from

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each nozzle. The nozzle noise is not cumulative. This has been tested and approved by MOE at Westport, Ontario.

16- Following spray irrigation standards-disinfection is not required. This also has been approved by MOE. Non-use of disinfection in such operation is`encouraged by US Army Corps of Engineers-Hanover NH. No chemicals are used in the EVC* Process at any point.

17- See Paragraphs 9 and 10, above, for details and answer to this query.

18- Soils conditions from data provided by NORAMPAC and MOE indicate hydraulic facility of excellent porosity(permeability) The basic soils mix is sand and gravel in the application area.
It is` NWC's intention to carry out specific soils tests –hydro-geo and Chemical, immediately following any contract award, to confirm assumptions made to this point so that in the application submission of the Design Report Brief, the exact information on soils and design of the Application Area for snow and sprays will be confirmed or adjusted accordingly.
Normal Design factor—for site design—0.5 litres/m2/hr.+ or – 10%.

19-Maximum operating costs
including-energy
-labour
-maintenance
-Miscellaneous consummables—lubricants –cleaning materials-
communications, transportation etc.
-Labtests
- reports

COSTS_approximately 0.35$/m3 for 300,000$*

- * The intent is to examine the sewerage system over the five (5) years operating commitment to reduce the I and I flows to the 170-180,000m3 per year annual loading. This will reduce the operating costs significantly.
- Labour requirements 2-3 hours per week as system is fully automatic with the option to have a remote /repeater. Control computer system in the manager's office so the system can be be monitored at will.

20- 50 years with recommended maintenance

21- Nozzles, software (proprietary)

22- Provided above -see 3 and 4 above.

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23- 5 years on equipment if operated as recommended System performance 10 years as long as system operated as directed. That is 5 years following complete turnover of system to OWNER.

24- Bonding is only available on contractor completion level. No bond is possible on an environmental performance, therefore, NWC will set aside 500,000$ in cash, IN TRUST contracturally deposited with auditors Parker Prins Lebano of Ottawa. This fund will be created as the contract progresses until 500,000$ in trust is accumulated at the end of the contract installation. For each succesful year of operation following commissioning, 100,000$ will be released to NWC. These terms have nothing to do with an ESR requirement but is provided herein in a gesture of good faith so as to not delay this project further. This cost is part of the contract price, not an ESR.This approach will facilitate the use of local small contractors.

25- Everything is included-engineering to commissioning
All systems-guarantees, warranties and contingencies-for this system, as designed.
Note: no add-ons by ENL will be tolerated as this is a complete system with no additional costs to The Township of Red Rock within the terms of this contract established by NWC.

26- This is covered—and has been conveyed to NWC by the Mayor and Council—see option "B". in Exhibit "C".

27- Nothing will be used of the existing plant which will be left intact as a standby contingency for 2 years, when it can be removed.

28- Wind effect-covered in the preamble of this document. Residents will not see this system –hear this system, smell this system---------!

Respectfully submitted
NORTHERN WATERTEK CORP.

Jeffrey A. White P.Eng
Janusz A. Szpaczynski Phd

Dan Currie

From: Kathy Bemben
Sent: June 6, 2011 16:11
To: Kevin Muloin; Dan Currie
Cc: Jose Casal; Kal Pristanski; Gundry, Michael
Subject: RE: Red Rock Waste Water Treatment ESR

Hi Kevin,

Dan is out of the office till later this week and I don't believe he is able to retrieve his email.

We did receive the information prepared by Jeff White from the Township of Red Rock, and are presently reviewing it.

The timeframe for presenting the ESR has not been confirmed yet.

Regards

Kathy

-----Original Message-----
From: Kevin Muloin [mailto:kevinm@superiorgreen.biz]
Sent: Saturday, June 04, 2011 9:33 AM
To: Dan Currie
Cc: Kathy Bemben
Subject: Red Rock Waste Water Treatment ESR

Hello Dan,

I understand that Jeff White has forwarded all the information that ENL has requested to the Town of Red Rock. Can you please confirm that ENL has received this information. Assuming that you do have the information provided by NWC, and that it should simply be a matter of plugging the information for a fifth option into an existing document that previously had four, can you please tell me when ENL will present the amended ESR document?

Best Regards,

Kevin Muloin
President
Superior Green Consulting
200 Fish Hatchery Road
Dorion, Ontario
P0T1K0
Phone: 807-887-4585
Fax: 807-857-1289

Engineering Northwest Ltd. requested additional information on the EVC process in a memo dated April 26, 2011. Northern Watertek provided a response in a memo dated May 10, 2011 and a document titled "Exhibit C", dated 2011, which included an option of utilizing the existing lagoons on the Red Rock Mill site as part of the EVC process. Upon review of the information provided by NWT, clarifications/additional information is hereby requested. The numbering system follows the same as previous submissions.

1. NWT memo indicates 1 ha per tower is required for snow storage. NWT Exhibit C indicates 7 ha to 4 – 5 ha depending on soil analysis. The site that NWT has identified for snow storage (the old lime storage area) is approximately 5 -6 ha, (by scaling off the maps) such that depending on the soil analysis there may not be sufficient room for the snow storage as proposed. If this is the case where would the proposed disposal area extend to? How close to the lake can the disposal area be?
2. Photo 15 shows 7 low level towers for summer use, as optional. The NWT memo indicates that there will be spraying in the summer. Is it optional? Item 8 in the NWT memo indicates there will be 35 spray nozzles – what is the correct number and where will they be located?

   NWT indicates 12 – 25 ha of area is available for spraying – can the area be delineated such that we can see the area proposed for disposal, as our measurements of the lime area indicate that it is approximately 5 -6 ha in size.

3. NWT memo indicates 1650 hours of snow making and 3823 hours of spraying is estimated. We note the previous information received from NWT (email dated June 2010) indicated snow making for 2200 hrs per year and spraying of 3800 hours per year. Why are the figures different now?

   In the energy calculations (your response to question 7) you note that the time for spray irrigation is 3823 hours, which equates to 159 days if spraying occurs 24 hours a day. The MOE Design Guidelines for Sewage Works in Section 15.9.3 notes that the spray irrigation time cannot exceed 100 days notwithstanding the frost free season. Please clarify the intent of your spray irrigation design. Also, what are you assuming is the frost free season for Red Rock?

   There does not appear to be storage in the Option A design to balance the time period when snow cannot be made and spray irrigation can start (assuming the MOE requirement of a maximum of 100 days of spray irrigation). How is this storage requirement managed in your design?

4. Please clarify the "arbitrary MOE Standards" that is referred to in the NWT memo.
5. This question was based more on how the system will manage the flows in the spring summer and fall. You note that the mill lagoons would have 550 days of storage. Is it the intent to use the

entire lagoon volume for your process. Also the lagoons are very deep, has this been considered in the process design.

6. Ok, no further information required
7. We note there are no costs for building or other electrical loads included in these costs – what are the additional costs? As the existing WWTP is not being re-used, there will have to be an office and control building at a minimum. There is a line item for aeration shown under Summer – we assume this is for the lagoon aeration? Is there any additional aeration required during summer spraying?
8. Please clarify the number of the low levels towers - Figure 10 states optional, Photo 15 shows 7, and the NWT memo states 35
9. Is the 140 m3 the wet well size? Is there a building at the proposed LS? Is standby power for the LS included in the costs? NWT indicates pumps are VTP style, and subject to use of submersibles – which is included?
10. Ok, no further information required
11. The effluent quality prior to the snow /spray guns was requested, only expected BOD was provided. Also require the expected TSS/phosphorus/ammonia/nitrates for both winter and summer at the guns.
12. The capital cost of the snow making / spray irrigation system was requested and was not provided – this is still outstanding and is required.
13. The capital cost of the treatment system was requested and was not provided – this is still outstanding and is required. We also note that the total cost remains unchanged from the earlier submission when new lagoons were being constructed, should there not be a capital cost saving if the existing lagoons on the mill site are being used, as in both Option A and B there is a pumping station and forcemain required, and based on Fig 3 and Fig 10 in Exhibit C the forcemain is shorter in Option B?
14. Ok, no further information required
15. Ok, no further information required
16. Ok, no further information required
17. Ok, no further information required
18. We acknowledge that details on the site soils are not available at this time. As noted in Item 1, if additional land is required where is the proposed disposal area? How close to the lake can the disposal area be?
19. The breakdown provided does not indicate whether monitoring well sampling and testing is included. Does the labour estimate of 2-3 hours per week allow for the regulatory monitoring, sampling, reporting, logging, maintenance on the aerators and blowers, cleaning of screens, training etc. that the operators are required to complete?
20. We feel 50 years is excessive for mechanical rotating equipment. Also the cover for the anaerobic lagoon and the aerators will have a limited life as well.

21. Ok, no further information required
22. Ok, no further information required
23. Does not really address the process performance, the question is- what if the process does not perform to meet the MOE standards, what guarantee does the Township have to come back to NWT to have it rectified?
24. Funding agreements normally require a 100% Performance Bond and 50% Labour and Materials Payment Bond on the contract, which has nothing to do with the ESR. We need confirmation that the costs of these Bonds are either included or not included in the quoted price.
25. We had asked for a summary of items that were included in the costing, which was not provided. Can a breakdown of each the following costs be provided for both Option A and B? If costs for some of these items is not included please indicate:
    a. Fencing of the treatment and disposal site
    b. Forcemain from the LS to the lagoon
    c. LS
    d. Standby power at the LS
    e. Access road to the lagoon sites and on site facilities
    f. Control / office building
    g. Monitoring wells
    h. Removal of existing sewage from the mill lagoons
    i. Services to the site including water, sewer, power, telephone
    j. Grading and berm construction on site
    k. Demo of existing WWTP
    l. Hydrogeological and geotechnical study
    m. Property acquisition costs
    n. MOE approval fees
    o. Studying of I&I reduction – are these costs included, what is the proposed study encompassing and what are the costs
26. Ok, no further information required
27. Ok, no further information required
28. Ok, no further information required

A few additional questions have arisen upon the review of the 2011 Exhibit C, summarized below.

1. The proposed disposal area appears to be on the existing lime storage area. There is no vegetation on this site, and unlikely that anything would grow there for many years due to the pH of the soil. How then would the Phytoremdiation as discussed in the NWT proposal be possible? In the absence of any ground cover / grasses etc., how would erosion and sediment

control be addressed? Have there been costs included for the grading of the lime site? The MOE Guidelines encourage the use of vegetation to provide additional treatment of effluent as well as additional evapotranspiration.

2. Option A filter system appears to be designed for 450 m^3/d – can this be clarified.
3. On page 15 of Exhibit "C" there is discussion about taking 5 years to clean up the existing lagoons, followed by decommissioning of the lagoons. Firstly – what will the effluent quality of the wastewater be in these 5 years? Secondly – what is meant by decommissioning the existing lagoons?
4. On page 16 of Exhibit "C", footnote 7, reference is made to the aerators in the existing lagoons. Are the costs for aerators in lagoon cell B1 included in the costs? Does the cost assume that the existing aerators will be able to be reused?
5. In option B the nitrate recycle is directed to the effluent end of lagoon B1, with aeration at the front of this lagoon. Conventional dentrifcation would be to incorporate an anoxic selector at the inlet of the lagoon where there is more substrate to do the denitrication rather than after aeration when the strength of the sewage has been degraded.
6. What is the tank for with a volume of 450 m^3 upstream of the raw sewage pumps. Is this a new tank or reuse of existing tankage.
7. Are the raw sewage pumps P1,P2, P3 shown in Fig 3 and Fig 10 new or existing?
8. In Fig 3, there are a number of pumps P4, P5, P6 and P7 which are shown as single pumps. Is there redundancy for these pumps in case of failure? How are the pumps in the lagoon installed (in buildings, in pits, submersible, etc.)
9. Is standby power included in your proposal and if not how does the system operate to prevent odours and still convey sewage during a power failure

Dan Currie

From: Jeff White [jwhite@watertek.org]
Sent: July 20, 2011 17:44
To: Gary Nelson; Kal Pristanski; 'Sheriff, Scott (ENE)'; Jordan, Paul (ENE); Doug; Garry Palmateer; Dan Currie
Subject: Emailing: Document Questions and Anwers - July 20 2011_PDF
Attachments: Document Questions and Anwers - July 20 2011_PDF.pdf

Gentlemen;
Herein our final draft of The answers to questions by ENL for clarification of information for completion of The ESR for Red Rock's WWTP upgrade. Please delete all other iterations of this document. This , hopefully will be the final version. Please note that an incredible amount of work has been carried out by our Dr. Szpaczynski
with respect to nitogen, ammonia, and phosphorus with respect to the use of the paper mill facilities to treat Red Rock's sewage.
Now the ESR can be completed
regards
Jeff White
The message is ready to be sent with the following file or link attachments:
Document Questions and Anwers - July 20 2011_PDF

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

ENL QUESTIONS # 2
on
Red Rock WWTP Upgrade
NWC-ANSWERS #2
INFORMATION on N, NH3 and TP
SITE PHOTOS and Drawings (MCB)

by

NORTHERN WATERTEK CORPORATION
J.A. White, P. Eng
J.A. Szpaczynski, Ph. D.

Northern Watertek Corp., Ottawa, Ontario – July 2011

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SECOND RESPONSE TO ENL QUESTIONS re ESR Revision
For Township of Red Rock WWTP UPGRADE
Final Draft-July 15th, 2011-07-14

CC: Mayor Gary Nelson and Council
Kal Pristanski, CAO
Scott Sheriff (ENE)
Paul Jordan (ENE)

General Comments-

NWC is a constructor-engineering firm by choice. This fits the format of the Joint Venture Partners-Tetra-Tech,Cosentini, Fisher Mclaren-Engineering Groups. We are not contractors per se. The contractors are the sub contractors who provide to us contractor services—civil, mechanical, and electrical etc. NWC are not consulting engineers either, as we only work with technologies that are the specialties of the firm in waste water treatment and energy from waste fields. A high degree of R&D goes into the NWC projects and technologies and thus they are generally proprietary.

NWC and SGC have been on site several times, in particular the site involving Option "B" The mill site south of the paper mill facilities as requested by Council. Option "A" is now discarded as an Option for any further consideration, except that consideration of that Option had been made and now rejected at the request of Red Rock Council.

Option "B" is acceptable and practical. Discussions have been held with MOE personnel regarding this Option. They have accepted, subject to site specifics, that the option is practical. See Appendix—layout photo and drawing Fig 17, Exhibit "C" revised.

NWC is the expert in the technologies proposed herein and in Exhibit "C" submitted. It is, therefore, requested of ENL that they accept NWC's answers per se. This is not an exercise to justify the process(es) proposed to ENL. Should ENL not agree with some of the responses herein, it is dutifully requested that they accept NWC's experience in these matters. This is an exercise to clarify information for consideration under the generally accepted specifications for an ESR.

Q&A's
1-Option "A" is out not to be considered further.
Parameters considered for Option "A" were more speculative than for Option"B" in that far more is known about the site specifics of Option "B"—soils, site contamination etc. MOE has provided considerable data to NWC re waste water in the lagoons, soils analysis, monitoring wells, test pits and boreholes, carried out by the MOE and the Parsons Group respectively-----thus the confidence factor increase in the engineering decisions taken, and the design parameters used.

2- There is adequate room on the site in that the closest tower to the Lake is nearly 300 meters away. This site has been walked and measured adequately to ensure that snow made from waste water will not land in the Lake. Data in hand shows the bulk of ice crystals settle some 30-40- meters from the towers in the wind speed window controlled by the system computer. At 70 meters the depth of snow is generally ZERO. The buffer zone of 100 meters that NWC normally proposes will not be inundated under any condition.
Plans are being made to remove the pile of lime. This will assist upwind conditions and how the ice crystals are distributed downwind from the tower.
Close examination of the lime storage facility shows considerable room between it and the north side of lagoon B-3. On the other side of the lime pile there is more than enough room for the ice crystal deposit area.
The pipeline manifold of towers numbered 1 to 4 is 210 meters long in total.
The hydrants shown on photo 15 and Fig 17-Exhibit "C" are removed as they were a consideration for liquid application to the lime storage area, once the lime is removed and as such would be an option for the future cleanup of the site. Suffice it to say AFC ice crystals will not be deposited on the lime site. --- But to the north of the lime site and down into the swale below the berms surrounding the lime site. See Appendix Photos
ENL must understand that the figures and photos provided are not engineering drawings. They are schematics, photos, and sketches designed to assit the dialogue presented herein.

Following recent site visits, the spray irrigation during non freezing seasons will take place in a line to the north side of the landfill site. See Appendix Photo for Spray line. This has been discussed with MOE and as such is acceptable at this time, again subject to further analysis to be carried out on site for soils and contaminant data, immediately after a contract would be awarded. It is expected that these studies will confirm thy assessments made to date.
The spray monitors will total 35 in number. As they are only 2 meters high, the carry over or distribution distance is minimal—a few meters at most and, therefore, is not a concern.

The EVC* system is a weather related system, with performance subject to all basic weather conditions, wind-speed, wind direction, RH, and temperature. Therefore, numbers and data provided herein must be considered with the weather in mind. The system is not a Swiss watch; therefore, some leeway within engineering design parameters is taken.

Use of MOE arbitrary regulations and criteria for spray irrigation does not apply here. These regulations, outdated, are based on application of secondary standard of waste water to land without any soils analysis, control of hydraulic parameters and well as geotechnical information to accurately determine the ability of the application area to absorb the applied waste water without-SURFACE RUNOFF a basic feature of EVC* technology. EVC* provides a very high standard of waste water (better than tertiary standard) applied to an engineered site. The effect of the nozzle stripping of gases and the freezing effect on the reduction of bacterial activity must be taken into account, accordingly, as part of the EVC* process.

Therefore, the 55m3/ha/day for 100 days/yr. does not apply. MOE agrees that this engineered concept allows NWC to set aside the arbitrary regulations as stated by ENL. The NWC approach is far superior. MOE agrees.

Finally, MOE design guidelines are not in any way conducive to innovation and thus the innovation called for by the MOE and senior government officials must consider the guidelines, which are just that ---guidelines! Innovation demands stepping beyond the guidelines. The EVC* process does just that, with the provision that subject to site specifics, common sense, documented experience and basic science applications meets MOE approval. It is NWC job to convince MOE of that not ENL's .

ENL is requested to use the term Nozzles and not "Guns". Snowmaking guns used in ski areas are significantly different in design. The nozzles used in this application are far more efficient than ski system "Guns" using far less energy and thus make far less noise.

3- The 1650 hours used in the presentation of Exhibit "C" is a minimal number of hours from the modelling and thus not cast in stone as inferred by ENL's questions. It simply reflects a minimal number of winter hours available in a worst case. There are an infinite number of hour-scenarios between summer and winter. That is to say the more hours used in winter, the less in summer and vice versa. The system is designed to process the volume of waste water loaded into the system.
In fact, modelling shows more than 3000 snowmaking hours are available during winter, with a very high degree of probability. The annual minimal hours of operation are based on a design model of 5000 hours. In fact, due to weather anomalies, average hours would be more than 5000 and upwards of 6000 annually. The number of scenarios is infinite, allowing also for the fact that non-freezing operation can involve aeration and low level monitor spraying compared to tower use in winter and different nozzles. Invariably the energy consumption total, considering all scenarios will be less than 600,000 Kwhrs.
This flexibility is one of the great advantages of the EVC* concept which adapts to weather conditions, something most systems do not with the result that standards of treatment performance are denigrated, particularly during winter months.
Nevertheless, it can be stated with absolute certainty that this system proposed can easily process the annual loading of waste water with "room to spare". To handle expansion loadings or excesses for any reason the system simply operates more hours.

The weather modelling is based on a probability of using a minimum of 30 years of weather averaged to create a solid, stable base. Then probability of utilizing 65-70% of the available hours generates a model meeting the system demand 9.2 years out of 10 with 70-% in the 10th year. System capacity design is based on these parameters.

Within the max-min models of seasonal hour usage the consumption of a maximum of 600,000 KwHrs is calculated—all systems.

4- see above #3

5-Option "B" will use the full capacity of lagoons labelled B-1, B-2, and B-3. Fig.14 etc. It is estimated that aeration will only be used as required for odour control denitrification etc. The 550 day HRT with two warm (summer) seasons (without ice cover) will have a profound effect on the waste water treatment standard. The aeration, on standby, in three lagoon locations will provide the flexibility needed to establish operating procedures in the 5 year operating contract proposed. Lagoon depths originally designed for stronger contaminant treatment, (Mill Waste), will have a significant effect on anaerobic denitrification operations. This has been taken into account in the attached deliberations.

6- Duly noted

7-This is a totally automatic system except for the cleaning out of RIFO's, weekly on entry to the lift station, and the lubrication of rotating machinery as required. (RIFO-Readily identifiable foreign objects in sewage).

There are no additional costs of any kind.—no extras.

Control Building.-See photos in Appendix.
The Main Control Building is included in this proposal as indicated on Photo 15, and Fig.17 etc. This unit is complete as per the attached drawings and Photo. This structure is prefabricated at Davtair Industries-Carp Ontario. It is complete in all aspects, delivered to site, and unloaded onto a prepared foundation. This technique has been pioneered by, and is a trademark of, NWC and eliminates high cost winter construction and site work. This has been done particularly in The NWT at the Ekati Diamond Mine. The MCB was unloaded directly onto permafrost pilings and was made operational in 2.5 weeks.
No additional office space is needed as this remote MCB is complete and secure. A remote terminal will be placed in the office of Dave Pettersen so he may monitor or interdict the system at any time. The data base automatically provides the Operating Reports information.
Documentation for this system will be kept in Mr. Pettersen's office.
Other works included and queried by ENL:--
Aeration: B-1 installation
Existing aeration refurbished to ensure reliability.

NOTE: Aeration will be used on the basis—"IF Needed" It has been determined that it will be needed especially in B-1. However, the long HRT in B-2 and B-3 may deem that aeration is needed very little, if at all. In addition the depth of these lagoons, while providing excellent anaerobic denitrification and digestion of solids may need some aeration to provide nitification and odour control. Therefore, **"Aeration if necessary but not necessarily Aeration".**
The levels of waste water currently will be reduced significantly to ensure proper flow directions, as for example current levels have equalized the levels between B-1 and B-2. This is unacceptable and will be corrected shortly under the supervision of the MOE.

NOTE: Aeration will be, if used, in summer season primarily.
Two major considerations must be made re evaporation in that upwards of 30-40 cms of lagoon waters will evaporate in this region. NWC has considerable experience in this area of surface evaporation losses. In Red Rock this is a significant loss—to the good. This will reduce operating hours and thus costs. In addition, the evaporation losses during spraying are designed and controlled to 40% to ensure SAR limits are not exceeded.

Winter losses are in the range of 15-18%---- evaporation and sublimation losses during processing and snow pack deposit including melting in the spring period.

Note: This system will, therefore, be very forgivable, in that if problems occur the lagoon system proposed will continue to absorb waste water from the lift station and bypasses and waste water releases will not be a feature of this system. Another advantage of EVC* only the lift station will have instantaneous standby power and capacity.

8-Photo 15-- hydrants are simply a consideration for the remediation of the lime storage area after the lime has been removed. It is not part of the system proposed and is, therefore, removed. From any consideration for this ESR information it was stated as being optional, but is removed to eliminate any confusion.
See attached layout for location of Low Level Monitors for summer spraying. Also see Photo 15 and Fig 17 in the Appendix, for details of Monitor Nozzles Layout.
At this time the characteristics of the landfill site are conducive to applying the waste water spray to it during the summer season. There is heavy growth on the down gradient side of the landfill all the way to the Lake shore. Phytoremedial forces are already at work here. See photos in Appendix.

Some 35 monitors will be installed mounted on a surface pipeline system. They process just over 2 m3/hr each. NWC design.

9- The 140 m3- wet well will provide 30 minutes of peak pumping (spring) with pump initiation control at the 2/3 level The building will be prefabricated as with the MCB in Steel etc. Normal flows at 900 m3/day (ENL number) will be controlled at the 1/3rd level ensuring no more than 5 pump start cycles per hour if we are reduced to one pump. With two pumps on either or switching each pump will cycle every thirty minutes –no less time.

During preparation of the Design Report Brief details re the Lift Station will be decided as to use submersibles or VTP's. Either is an option at this time.

10- Noted

11-BOD5 was provided after two summer's retention in B-2 and B-3 (550 days) BOD5 readings provided by MOE are extremely low—on the verge of non detectable. This means

that all other biological concentrations are very low and NWC questions why this is being queried—however, see the attached from our R&D Department re Ammonia and Nitrogen.

TSS will be non detectable if they are organic-If inorganic, and do not6 settle to the bottom of lagoons B-2 and B-3, they will be removed by the ground wedging effect of the Land Application spraying in both winter and summer seasons.
The inorganic TSS deposited in the lagoons, the depth or build up of which will be virtually undetectable.

SEE DOCUMENTED INFORMATION (Proprietary) IN APPENDIX ON Phosphorus and Nitrogen---

The standards of performance of Table 2 –Exhibit "C" will be met. This will be impacted upon the current ground water concentrations.

12-ENL must understand that this is a Design-Build Concept. Cost estimates are prepared by an integrated Straddle Method basis to produce a project single (total) cost to NWC. Overhead, profit, contingencies and risk are then added for a sale price of 8,979,460$ CDN plus taxes, FOB Jobsite. Complete. Taxes are extra as they are fully recoverable by the Township.
Design-Build is a legitimate format, well utilized by the government of Ontario. These integrated engineering and construction projects provide lower costs to the end client, better guarantees, warrantees etc.
In this case NWC has included operation of the system-all costs at no charge to Red Rock.
ENL is cautioned NOT to ADD anything to the quoted cost. This is a fixed price contract complete in every way.Any such action will be considered a misrepresentation of what has been presented toRed Rock to date.

It is also expected that in the ESR proceedings **that ENL will use a Present Value process of financial comparison with other alternatives. If ENL requires assistance in this procedure NWC would be pleased to assist.**

For such considerations the fact that NWC will not charge Red Rock for 5 years operation and in fact will underwrite partially the salary of permanent Red Rock personnel (Dave Pettersen) to some extent –to be determined. The process of the reduction of I&I flows will reduce the total operation cost of this plant to 85,000$ per year plus taxes-all costs included. Current initial costs of O&M will be underwritten by NWC with the addition of R&D personnel to operate, test and maximize the efficiency of this system for at least 5 years. Current costs to NWC could be as high as 100,000$ +, per year. ENL should use the 85,000$/year figure in present value deliberations, for the future and Present Value calculations.
Therefore, NWC will not, nor is it required to breakout artificially estimated selling costs to fit ENL's format.

13-It seems apparent that ENL has not visited nor examined the mill site Option "B"-or this question would not have been asked. The terrain in Option "B" is far more difficult to access and engineer as required by the EVC* concept. Pipeline installation costs will be much higher. The lift station was originally conceived to be located in the existing WWTP. Specs by ENL preclude that for this consideration. Further, ENL has changed the flows upon which this proposal is to be based requiring pump sizes to be increased. The lift station therefore, is far more expensive than originally conceived. The addition of aeration in B-1 is more expensive than originally conceived for lagoons in Option "A".

14- Noted
15- Noted
16- Noted
17- Noted

18- In Option "A" considerations, far less information was available on soils, water tables, etc. Therefore, wider tolerances were used in overall design parameters and the straddle system of estimating costs. In spite of the use of closer tolerances in Option "B" the degree of difficulty on the mill site is greater and thus the costs greater.
Soils information as to hydro-geo considerations has been provided by MOE to NWC as well as the Parsons Group studies for NORAMPAC. This includes considerable chemical analysis of both soils and lagoon contents.
A number of test sites were examined, including Test Pits, Monitoring Wells and Boreholes. They cover a broad band of test sites across the full width of the property from Howe Mountain to the Lake shoreline. It is logical to assume, in the absence of any surface geological anomalies, that the same conditions exist throughout the property to be utilized by the system herein proposed. The site is an alluvial plain and it consists, according to these test sites, of loose gravel, sand, silty sand, and a bare minimum of organic material. It is, therefore, estimated by NWC engineers that the hydro-geo study to be carried out by independent engineers will confirm satisfactory hydraulic vectors underground together with permeability of at least 10 to the minus 5 cms per second-(highly permeable)

Various facilities, including overflow swales, etc., provide natural barriers to any surface runoff or spills that might be created by operating the EVC* system.

The major protective device is the lagoon system as we have incorporated it into The EVC* system.

MOE wants to lower the levels of water in the lagoon systems as it currently exists to ensure no potential overflow, once incorporated into the EVC* system.

The last tower (T-4) will be nearly 300 m to the closest lakeshore. However, ground water will not flow in that direction. It will move more to the North and then southwards, according to surface topography. This has been confirmed by the latest site inspection.

19-Monitoring Wells

There are several existing monitoring wells that are documented in the Parsons report. These wells will be immediately tested for reliability and serviceability. MOE will authorize use of relevant MW's depending where they are, with respect to the EVC* system installation. They will also indicate where they require new MW's, so as to assess the ground water flow.

MOE has requested the MW program up and running as soon as possible following a contract signing so as to provide as much background data as possible to develop plausible impact statements upon the existing background data.

Labour estimates are based on existing NWC experience. Wire-water technology used to monitor all rotating machinery should prevent any catastrophic failures of machinery. The system will inform Mr. Pettersen if he has a problem to be remedied. This information will be made available on his desk in his current office.

The data base provides all relevant data on what ever time basis is desirable.

Cleaning of all screens will take less than an hour a week. Design will facilitate this cleaning process.

NWC will put highly qualified staff for training, operations improvements, and R&D work throughout the 5 year term of operation of the system. They will be in support of Mr. Pettersen. They will not be permanently stationed in Red Rock based on decisions at this time.

Considering business development status, their posting to this Red Rock operation could be permanent.

20- ENL feels a 50 year obsolescence model for rotating machinery is extreme. We do not concur. With proper maintenance a system like this can be operated that long –Standard Industrial life is 40 Years. The intermittent nature of the system is such that in 50 years the hours of recorded operation, considering strategic standby machinery or backup, will demonstrate that the accumulated hours of each machine will be less than in a 40 year Industrial Standard Life.

In short, considering proper maintenance, the operating characteristics of the system----50 year model is not unreasonable. ENL must accept this position as viable.

Covers: As Option "A" is withdrawn no covers for anaerobic lagoon operations are needed for the Option "B" proposal. B-2 and B-3 are deep enough to provide the denitrification and solids digestion desired. Aeration will provide odour control and nitrification as required. This aeration system is not anticipated to be more than partial operation totalling no more than 1000 Hours a year.

The existing aeration system is basic in its control features. The system will be refurbished and incorporated into the EVC* control system. Motors may have to be replaced in future but that is not a major cost item.

21- Noted
22- Noted

23-A 500,000$ cash deposit will be established as per contract terms and held in trust to assure guarantees; warrantees are met before repayment to NWC. This is also a blanket provided by NWC to cover subcontractors and suppliers. This protection will also allow small local firms to participate in this project, without the punitive aspects of Bonding. This is more than adequate to protect the system and the people of Red Rock etc. and guarantee the system will perform as undertaken so to do in the five years of operation of the system by NWC. MOE will be asked to verify that the system is performing satisfactorily before any of the trust funds are released to NWC. This is already incorporated in the contract terms submitted to Red Rock's lawyer.

The WX summer-winter approach to design and the system's dependency on the weather (WX) provides, in fact, two systems acting in contingency, one to the other. In the extreme, if only one day of winter occurs for satisfactory operation, the the rest of the year the spray operation will suffice and vice versa. The contingent system is built into the design. In both cases there is no release of raw sewage to the environs.

The process EVC* has major natural components incorporated in the overall design. Atomizing of effluent and site engineering are the two man-made aspects of the design. Failure is unlikely other than possible machinery failure. One advantage of design-build is that NWC is allowed to chose the equipment and materials desired. These are proven reliable which serves NWC cost of operation as well as Red Rock's cost in year 6 and onwards.

MOE is guaranteed a standard of performance that produces an impact to ground water of better than tertiary standards and that there is not surface runoff. This is the basis of a C of A granted to an EVC* System.

It may be difficult for ENL to accept these premises compared to traditional, non-innovative approaches of design, then tender calls, then contracts and then commissioning. To NWC these steps are all internal to one contract and thus the cost savings compared to all other alternatives.

Note to ENL—*"Consulting Engineers do not provide performance guarantees, warranty extensions on all equipment etc. As a consulting engineer for more than 40 years, the undersigned knows full well as to how far the consulting engineers will not go!*

Our references speak for themselves and as such are the best security Red Rock and MOE can receive.

24- This has been covered in the foregoing particularly #23

25-**Included-ENL List**

a) Fencing as required-included
b) Force main-included
c) Lift Station-included
d) Standby Power in LS-included
e) Access roads –included
f) MCB included \
g) Monitoring wells included
h) Removal of existing sewage in lagoons –included
i) Services to site as required.-included
j) Grading and berm renovation-included as approved by MOE
k) DEMOLITION OF EXISTING WASTE WATER SYSTEM
NOT INCLUDED. Demolition experts will demolish the plant at no cost to Red Rock – This is based on their recovery of existing equipment in the plant. This is a competitive business.
NWC will assist Red Rock after the two year standby term for this plant, as proposed, to obtain the best deal for demolition and site renovation. The worst case is no charge to Red Rock. The best case is to receive some funds for reclaimed equipment.
l) Studies- Included
m) Property acquisition-Not applicable
n) MOE Approval fees-NWC will reimburse fee cost. NWC will prepare documentation for Approvals. This is the least expensive option.
o) I&I reduction Studies -included

26- noted
27-noted
28- noted

Additional Questions

1- The Tower line is adjacent to the lime storage area not in it. See attached sketch.
Down grade areas of the lime storage area and the landfill site have heavy growth of trees, shrubs, and grasses. Phyto-remediation will work well in theses areas and excess water will be evapotransporated in these areas together with grasses uptake of constituent contaminants. **See photos in Appendix.**

Wind conditions, as commented upon in this, and previous documents are unique in that they will be invariably funnelled into a consistent direction flowing to the southeast. This is

due to the location of these facilities in proximity to the mill building and the mountain. Snow deposit locations will be highly predictable, and easily controlled.
There have been several iterations of Exhibit "C" as more information became available. This has resulted in some confusion for ENL. NWC apologizes for this but this is how this project has developed. The change to Option "B"has caused this confusion, particularly, with the addition of MOE lagoon content information and the hydro-geo data that the Parsons Group did for NORAMPAC. However, this information has assisted in clarification of the design parameters, and reduction of tolerances. The amount of work carried out by NWC in responding to these questions and requests for information and clarification has been significant.

There will be no erosion or surface run-off.
Site and soils investigation has confirmed no sign of any erosion whatsoever of the existing installation and calculations have confirmed there will be none when the EVC* system is installed. This will be confirmed by the Hydro-geo studies to be immediately undertaken once a contract is consummated.

NWC will assume the cost of any grading of the current lime pile pending its complete removal.

2- **Option "A"----disregard**

3- MOE has provided significant data re the existing lagoons rte contaminants, a summary of which is in Exhibit "C" Tables 9 and 10. The 5 year comment is an estimate that significant change in lagoon residuals will take place in that period of time considering the HRT of raw waste water in these lagoons. If there is still residual organic contamination in these lagoons, reduction will continue until some time in the future the residual organic materials will be reduced to non-detectible levels. It is NWC's estimate that in the 5 year period a significant reduction will take place so that no measurable impact will be detected. If ENL has other information on this issue, NWC would be pleased to receive it for review. However, this concept has been reviewed by both Palmateer and Huber, formerly specialists with MOE and they concur that both organic and inorganic residual materials in the lagoons will be reduced over time in any event. The application of raw sewage will accelerate the process.

   Decommissioning any of these lagoons other than the two lagoons to the WNW of lagoon B-1 will not take place as continued study of the concept of permanently using B-1, B-2 and B-3 lagoons meets with the favour of the regulating authorities.

4- As noted in the foregoing answer in #7, B-1 aerators are included. (Same question re aerators ?)
   Aerators will be installed in B-1, and refurbished in B-2, and B-3. They will be operated on an "IF REQUIRED" basis. The long HRT of this lagoon system will

dictate that requirement.---With the depth of these lagoons and this HRT only improvement in quality can occur, before land application by the spray and AFC* system. *(Atomizing Freeze Crystallization)

5- The nitrate recycle pump- P-4 is located in the lower level of the MCB. The discharge line will renter the lagoon B-1 at the entry point of the lagoon. The schematic has been modified to clarify this point. NWC has the appropriate experience in this concept to ensure the proper location of the recycling system is observed. We apologize for the confusion but a schematic is just that. It is not an engineering drawing. Note: use of this system is intermittent based on sampling data.

6- Please ignore—the new lift station sump capacity of 140 m3 based on ENL's revised flow specifications replaces the original flow considerations. Exhibit "C" will be revised.

7- All equipment is new except as stated re existing aerators in lagoons B-2 and B-3 which will be refurbished and tested.

8- Ignore Fig 3 Option "A" as noted in the foregoing. The only relevant schematic is Fig 10, revised to show nitrate recycling re-entry point as noted in extra question #5 above. Pumps are located in the main control building as noted in #5 above.

9- Again-Standby Power is included in the lift station. It is not required anywhere else in the system. The lagoons will be maintained at levels satisfactory to the MOE, which with the planned initial release will allow for considerable down time should an extended power failure occur.
Odours will not be a problem with this system. The long HRT, the aeration and the use of enzymes application will ensure that will not be a problem. ENL will simply have to accept that, odour control is something that NWC knows how to control by various methods. EFC* systems are well known for that advantage.

Respectfully submitted
NORTHERN WATERTEK CORP.
Jeffrey A. White P.Eng
J. A. Szpaczynski Ph D.

Engineering Northwest Ltd. requested additional information on the EVC process in a memo dated April 26, 2011. Northern Watertek provided a response in a memo dated May 10, 2011 and a document titled "Exhibit C", dated 2011, which included an option of utilizing the existing lagoons on the Red Rock Mill site as part of the EVC process. Upon review of the information provided by NWT, clarifications/additional information is hereby requested. The numbering system follows the same as previous submissions.

1. NWT memo indicates 1 ha per tower is required for snow storage. NWT Exhibit C indicates 7 ha to 4 – 5 ha depending on soil analysis. The site that NWT has identified for snow storage (the old lime storage area) is approximately 5 -6 ha, (by scaling off the maps) such that depending on the soil analysis there may not be sufficient room for the snow storage as proposed. If this is the case where would the proposed disposal area extend to? How close to the lake can the disposal area be?
2. Photo 15 shows 7 low level towers for summer use, as optional. The NWT memo indicates that there will be spraying in the summer. Is it optional? Item 8 in the NWT memo indicates there will be 35 spray nozzles – what is the correct number and where will they be located?

   NWT indicates 12 – 25 ha of area is available for spraying – can the area be delineated such that we can see the area proposed for disposal, as our measurements of the lime area indicate that it is approximately 5 -6 ha in size.

3. NWT memo indicates 1650 hours of snow making and 3823 hours of spraying is estimated. We note the previous information received from NWT (email dated June 2010) indicated snow making for 2200 hrs per year and spraying of 3800 hours per year. Why are the figures different now?

   In the energy calculations (your response to question 7) you note that the time for spray irrigation is 3823 hours, which equates to 159 days if spraying occurs 24 hours a day. The MOE Design Guidelines for Sewage Works in Section 15.9.3 notes that the spray irrigation time cannot exceed 100 days notwithstanding the frost free season. Please clarify the intent of your spray irrigation design. Also, what are you assuming is the frost free season for Red Rock?

   There does not appear to be storage in the Option A design to balance the time period when snow cannot be made and spray irrigation can start (assuming the MOE requirement of a maximum of 100 days of spray irrigation). How is this storage requirement managed in your design?

4. Please clarify the "arbitrary MOE Standards" that is referred to in the NWT memo.
5. This question was based more on how the system will manage the flows in the spring summer and fall. You note that the mill lagoons would have 550 days of storage. Is it the intent to use the

entire lagoon volume for your process. Also the lagoons are very deep, has this been considered in the process design.

6. Ok, no further information required
7. We note there are no costs for building or other electrical loads included in these costs – what are the additional costs? As the existing WWTP is not being re-used, there will have to be an office and control building at a minimum. There is a line item for aeration shown under Summer – we assume this is for the lagoon aeration? Is there any additional aeration required during summer spraying?
8. Please clarify the number of the low levels towers - Figure 10 states optional, Photo 15 shows 7, and the NWT memo states 35
9. Is the 140 m3 the wet well size? Is there a building at the proposed LS? Is standby power for the LS included in the costs? NWT indicates pumps are VTP style, and subject to use of submersibles – which is included?
10. Ok, no further information required
11. The effluent quality prior to the snow /spray guns was requested, only expected BOD was provided. Also require the expected TSS/phosphorus/ammonia/nitrates for both winter and summer at the guns.
12. The capital cost of the snow making / spray irrigation system was requested and was not provided – this is still outstanding and is required.
13. The capital cost of the treatment system was requested and was not provided – this is still outstanding and is required. We also note that the total cost remains unchanged from the earlier submission when new lagoons were being constructed, should there not be a capital cost saving if the existing lagoons on the mill site are being used, as in both Option A and B there is a pumping station and forcemain required, and based on Fig 3 and Fig 10 in Exhibit C the forcemain is shorter in Option B?
14. Ok, no further information required
15. Ok, no further information required
16. Ok, no further information required
17. Ok, no further information required
18. We acknowledge that details on the site soils are not available at this time. As noted in Item 1, if additional land is required where is the proposed disposal area? How close to the lake can the disposal area be?
19. The breakdown provided does not indicate whether monitoring well sampling and testing is included. Does the labour estimate of 2-3 hours per week allow for the regulatory monitoring, sampling, reporting, logging, maintenance on the aerators and blowers, cleaning of screens, training etc. that the operators are required to complete?
20. We feel 50 years is excessive for mechanical rotating equipment. Also the cover for the anaerobic lagoon and the aerators will have a limited life as well.

21. Ok, no further information required
22. Ok, no further information required
23. Does not really address the process performance, the question is- what if the process does not perform to meet the MOE standards, what guarantee does the Township have to come back to NWT to have it rectified?
24. Funding agreements normally require a 100% Performance Bond and 50% Labour and Materials Payment Bond on the contract, which has nothing to do with the ESR. We need confirmation that the costs of these Bonds are either included or not included in the quoted price.
25. We had asked for a summary of items that were included in the costing, which was not provided. Can a breakdown of each the following costs be provided for both Option A and B? If costs for some of these items is not included please indicate:
    a. Fencing of the treatment and disposal site
    b. Forcemain from the LS to the lagoon
    c. LS
    d. Standby power at the LS
    e. Access road to the lagoon sites and on site facilities
    f. Control / office building
    g. Monitoring wells
    h. Removal of existing sewage from the mill lagoons
    i. Services to the site including water, sewer, power, telephone
    j. Grading and berm construction on site
    k. Demo of existing WWTP
    l. Hydrogeological and geotechnical study
    m. Property acquisition costs
    n. MOE approval fees
    o. Studying of I&I reduction – are these costs included, what is the proposed study encompassing and what are the costs
26. Ok, no further information required
27. Ok, no further information required
28. Ok, no further information required

A few additional questions have arisen upon the review of the 2011 Exhibit C, summarized below.

1. The proposed disposal area appears to be on the existing lime storage area. There is no vegetation on this site, and unlikely that anything would grow there for many years due to the pH of the soil. How then would the Phytoremdiation as discussed in the NWT proposal be possible? In the absence of any ground cover / grasses etc., how would erosion and sediment

control be addressed? Have there been costs included for the grading of the lime site? The MOE Guidelines encourage the use of vegetation to provide additional treatment of effluent as well as additional evapotranspiration.

2. Option A filter system appears to be designed for 450 m^3/d – can this be clarified.
3. On page 15 of Exhibit "C" there is discussion about taking 5 years to clean up the existing lagoons, followed by decommissioning of the lagoons. Firstly – what will the effluent quality of the wastewater be in these 5 years? Secondly – what is meant by decommissioning the existing lagoons?
4. On page 16 of Exhibit "C", footnote 7, reference is made to the aerators in the existing lagoons. Are the costs for aerators in lagoon cell B1 included in the costs? Does the cost assume that the existing aerators will be able to be reused?
5. In option B the nitrate recycle is directed to the effluent end of lagoon B1, with aeration at the front of this lagoon. Conventional dentrifcation would be to incorporate an anoxic selector at the inlet of the lagoon where there is more substrate to do the denitrication rather than after aeration when the strength of the sewage has been degraded.
6. What is the tank for with a volume of 450 m^3 upstream of the raw sewage pumps. Is this a new tank or reuse of existing tankage.
7. Are the raw sewage pumps P1,P2, P3 shown in Fig 3 and Fig 10 new or existing?
8. In Fig 3, there are a number of pumps P4, P5, P6 and P7 which are shown as single pumps. Is there redundancy for these pumps in case of failure? How are the pumps in the lagoon installed (in buildings, in pits, submersible, etc.)
9. Is standby power included in your proposal and if not how does the system operate to prevent odours and still convey sewage during a power failure

Appendix

FULL DOCUMENT NOT PRINTED DUE TO PROPRIETARY CONTENT

Dan Currie

From: Dan Currie
Sent: July 25, 2011 08:42
To: Kevin Muloin
Cc: Kathy Bemben (kbemben@enl-tbay.com)
Subject: RE: Red Rock WWTP
Attachments: Document Questions and Anwers - July 21 2011_PDF.PDF

Received the attached document.

We will review and advise when the ESR is finalized.

Regards,

Dan

-----Original Message-----
From: Kevin Muloin [mailto:kevinm@superiorgreen.biz]
Sent: July 22, 2011 09:41
To: Dan Currie
Subject: Red Rock WWTP

Hello Dan,

Can you please confirm that you have received the correspondence from NWC answering the questions ENL put forth regarding the Red Rock WWTP.
Can you please advise me when ENL will finalize the ESR.

Best Regards,

Kevin Muloin
President
Superior Green Consulting
200 Fish Hatchery Road
Dorion, Ontario
P0T1K0
Phone: 807-887-4585
Fax: 807-857-1289

Dan Currie

From: Kal Pristanski [cao@shawbiz.ca]
Sent: July 25, 2011 10:12
To: 'David Pettersen'
Cc: Dan Currie
Subject: FW: Emailing: Ex_C_RED ROCK PROCESS_Two_Options_V10_July_20_2011
Attachments: Ex_C_RED ROCK PROCESS_Two_Options_V10_July_20_2011.pdf

Not sure if this information is useful but passing it along.

kal

From: Jeff White [mailto:jwhite@watertek.org]
Sent: July 22, 2011 10:30 PM
To: Kal Pristanski
Subject: Emailing: Ex_C_RED ROCK PROCESS_Two_Options_V10_July_20_2011

Mr. Pristanski:
Attached is the Modified Exhibit "C" which is part of the contract DRAFT we submitted a few weeks ago.
Due to the requirement for calrification by ENL some modifications were made. Nothing is changed in the system per se.
Fig. 10 page 68
Photo 15 page 75
Site plan page 76 have been modified.
As these are part of the contract submitted to your lawyer would you please forward these changed documents as noted, to Mr Stirling. Please note --no text has been changed.
Thankl you
regards
Jeff White
1 613 255 2890

The message is ready to be sent with the following file or link attachments:
Ex_C_RED ROCK PROCESS_Two_Options_V10_July_20_2011

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The message was checked by ESET NOD32 Antivirus.

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Kathy Bemben

From: Kal Pristanski [cao@shawbiz.ca]
Sent: July 28, 2011 8:26 AM
To: 'Jose Casal'
Cc: Kathy Bemben; 'Gundry, Michael'
Subject: FW: Northern Watertek_Authorization for release of proprietary information

Jose: Please see below.

kal

From: Jeff White [mailto:jwhite@watertek.org]
Sent: July 27, 2011 4:33 PM
To: Kal Pristanski
Subject: Re: Northern Watertek_Authorization for release of proprietary information

No problem Sir!
The proprietary aspects are already taken care of in the NDA signed previously.The MOE has established procedures to protect such information. If there is a concern simply drop off the documents on Phosphorus and Nitrogen as they are proprietary. Everything else is either in patent pending status or patented and thus disclosed. Common sense is always required in these matters and a simple yes or no is not really applicable.
If attached to the ESR as an addendum please ensure that the copyright notification is obvious.
J.A. White
Northern Watertek Corp.

----- Original Message -----
From: Kal Pristanski
To: 'Jeff White'
Sent: Wednesday, July 27, 2011 1:59 PM
Subject: FW: Northern Watertek_Authorization for release of proprietary information

Mr. White:

Please see below and advise.

Thank you,

Kal

From: Jose Casal [mailto:JCasal@ocwa.com]
Sent: July 27, 2011 1:47 PM
To: Kal Pristanski (cao@shawbiz.ca)
Cc: Dan Currie; 'Kathy Bemben'; 'michael.gundry@aecom.com'
Subject: Northern Watertek_Authorization for release of proprietary information

Kal,

As discussed yesterday during our brief phone conversation, ENL, AECOM and OCWA had planned for a teleconference today in order to discuss the technical aspects of Northern Watertek Corporation (NWC) submission in response of the latest round of questions (dated June 28, 2011) issued by ENL regarding to the proposed EVC technology for the Red Rock Wastewater Treatment Upgrade project.

During today's teleconference, the aforementioned parties agreed that the information provided by NWC for their proprietary EVC technology should be incorporated in the revised ESR document (appended as support

documentation); however the information provided by NW is copyrighted. Based on the above, we kindly ask you to approach NWC and request their permission (**in writing**) to publish the above noted documentation in the revised ESR.

Please note that all we need is a simple straight forward answer whether NWC agrees or not. Please bear in mind that the ESR is a document of public knowledge, thus their approval should not be subject to a contract or any other type of binding document with any of the parties involved in this project including the Township of Red Rock.

We sincerely appreciate your help with this matter.

Best regards,

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Jose A. Casal, P.Eng.
Engineering Services
Ontario Clean Water Agency
1 Yonge St., Suite 1700
Toronto, ON. M5E 1E5
Tel: (416) 314-5544
Fax: (416) 314-8300
Email: JCasal@ocwa.com
URL: www.ocwa.ca

OCWA – "Complete Solutions, Clear Value"

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ENL

Engineering Northwest Ltd.

Consulting Engineers

July 28, 2011

PN 09080

Ministry of the Environment Thunder Bay District Office
Technical Support Section
Suite 331, 435 James St. S.
Thunder Bay ON
P7E 6S7

Attention: Paul Jordan

Dear Sir:

Re: Township of Red Rock
Wastewater Treatment Plant Environmental Assessment
Effluent Criteria Requirements

We are writing with respect to the Red Rock Wastewater Treatment Treatment Plant Environmental Assessment (EA). As part of the EA, several different treatment technologies are being evaluated, which include effluent disposal to land and surface water.

The MOE previously confirmed the following effluent quality limits for discharge to Nipigon Bay of Lake Superior:

- BOD = 25 mg/L; TSS = 25 mg/L; Total Phosphorous = 1.0 mg/L; No acute toxicity.

Please provide the effluent quality criteria required for land application of the effluent, i.e. if discharging to land using spray irrigation or snow spraying.

As you may also be aware, the Township is evaluating the alternative of utilizing the existing mill lagoons for treatment of the municipal domestic sewage. Can you please advise if the MOE has any concerns/issues with using the existing lagoons?

Should you require further information or have any questions concerning this project, please contact the undersigned.

Yours Very Truly,
Engineering Northwest Ltd.

K. Bemben, P. Eng.
KB:dc
cc. K. Pristanski, Twsp of Red Rock
D. Pettersen, Twsp of Red Rock
J. Casai, OCWA
M. Gundry, AECOM

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ENL

Engineering Northwest Ltd.

Consulting Engineers

August 3, 2011

PN 09080

Township of Red Rock
P.O. Box 447
Red Rock, Ontario
P0T 2P0

Attention: Mr. Kal Pristanski, CAO

Dear Sir:

Re: Township of Red Rock
Wastewater Treatment System Upgrades
Class Environmental Assessment – EVC Process Review

We are writing with respect to recent activities and correspondence pertaining to the Class Environmental Assessment (EA) for the Wastewater Treatment System Upgrades.

Several information exchanges have taken place with Northern Watertek Corp. (NWC) with regard to their proposal to provide an Envapocrystallization (EVC) system. Some of the information requested of NWC has not been provided. The key information that has been requested and has not been provided is summarized as follows:

1) The expected effluent quality at the nozzle based on the MOE requirements for spray irrigation and reasonable use concept were not provided. Also parameters such as phosphorus were based on similar facilities which utilize coagulant addition and we did not see that chemical in the process flow sheet or the operating costs for the Red Rock EVC system.

2) The capital cost was not provided, nor was a breakdown of the capital costs provided (please note this was the 3rd time this information was requested)

3) A detailed scope of work and services to be provided by NWC in their proposal was not provided. We were expecting information such as individual equipment sizing and proposed manufacturers and model number, modifications to the existing plant required, standard of materials and equipment and details of electrical servicing and power requirements. This information is normally supplied by other equipment/process vendors on other projects and allows the Township to determine the standard of materials being provided to ensure that the equipment and system has a long expected life to reduce future replacement costs to the Township after the NWC operating period has expired..

4) The annual operating cost was not provided, nor was a breakdown of the operating costs provided (please note this was the 3rd time this information was requested). This information is important as the Township needs to know the costs they will have to pay after the initial 5 year operating period proposed by NWC expires.

5) Costs for demolition of the existing WWTP, replacement of the existing aerators, provision of Performance and Labour and Materials Payment Bonds, removal of the lime storage area, and removal of sludge from the existing lagoons are not included. These costs are part of the overall project, and in order to equally compare costs to other alternatives these items need to be considered.

200 South Syndicate Ave., Suite 301, Thunder Bay, ON P7E 1C9 Telephone (807) 623-3449 Fax (807) 623-5925 Email: general@enl-tbay.com www.enl-tbay.com

6) Capital costs for improvements to reduce I&I flows are not included, however assumptions on reduction of I&I flows have been made in some of the operating cost information provided.

In order to move forward with the completion of the EA we will utilize the information provided to date by NWC in assessing the EVC system along with other alternatives.

Should you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours very truly,

ENGINEERING NORTHWEST LTD.

K. Bemben, P.Eng.
KB:dc
Encl.

Cc. Dave Pettersen – Township of Red Rock
Jose Casal - OCWA
Mike Gundry - AECOM

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Dan Currie

From: Dan Currie
Sent: August 5, 2011 13:35
To: 'Jeff White'
Cc: Kal Pristanski; 'Gundry, Michael'; 'Jose Casal'
Subject: RE: vague answers

Jeff,

My apologies for not responding sooner. Please be advised that we are reviewing the information provided, and we will issue a request for additional information through the Township as per the previous protocol if required.

Thanks,

Dan

From: Jeff White [mailto:jwhite@watertek.org]
Sent: August 5, 2011 11:41
To: Dan Currie
Subject: vague answers

Mr. Currie:
A week ago I sent you an e-mail regarding a comment you made that some of answers were still vague re our second response to your questions.

Would you please indicate which answers were still giving you some difficulty.

Jeff White
NORTHERN WATERTEK CORP.
613 255 2890

Kathy Bemben

From: Dan Currie
Sent: August 9, 2011 8:47 AM
To: Kathy Bemben
Subject: FW: vague answers

FYI

From: Kal Pristanski [mailto:cao@shawbiz.ca]
Sent: August 9, 2011 08:44
To: 'Jeff White'; Dan Currie
Cc: 'Gundry, Michael'; 'Jose Casal'
Subject: RE: vague answers

Good morning all.

Please note that all requests for information with respect to Mr. Whites proposal for the Waste Water Plant will flow through this office.

Thank you.

kal

From: Jeff White [mailto:jwhite@watertek.org]
Sent: August 5, 2011 3:01 PM
To: Dan Currie
Cc: Kal Pristanski; Gundry, Michael; Jose Casal
Subject: Re: vague answers

I ask that you deal directly with me should you have any further information. Mr. Pristanski has asked us to deal directly with you. I expect no less in return.
Jeff White

----- Original Message -----
From: Dan Currie
To: Jeff White
Cc: Kal Pristanski ; Gundry, Michael ; Jose Casal
Sent: Friday, August 05, 2011 1:34 PM
Subject: RE: vague answers

Jeff,

My apologies for not responding sooner. Please be advised that we are reviewing the information provided, and we will issue a request for additional information through the Township as per the previous protocol if required.

Thanks,

Dan

From: Jeff White [mailto:jwhite@watertek.org]
Sent: August 5, 2011 11:41
To: Dan Currie
Subject: vague answers

Mr. Currie:
A week ago I sent you an e-mail regarding a comment you made that some of answers were still vague re our second response to your questions.

Would you please indicate which answers were still giving you some difficulty.

Jeff White
NORTHERN WATERTEK CORP.
613 255 2890

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Dan Currie

From: Jordan, Paul (ENE) [Paul.Jordan@ontario.ca]
Sent: August 16, 2011 10:40
To: Gundry, Michael; Dan Currie
Cc: Kal Pristanski; Kathy Bemben; Jose Casal; davidjmp@shawbiz.ca; Sheriff, Scott (ENE)
Subject: RE: Red Rock EA - clarification to letter

I realize that Option 5 is a land application

From: Gundry, Michael [mailto:Michael.Gundry@aecom.com]
Sent: August 12, 2011 3:00 PM
To: Jordan, Paul (ENE); Dan Currie
Cc: Kal Pristanski; Kathy Bemben; Jose Casal; davidjmp@shawbiz.ca; Sheriff, Scott (ENE)
Subject: RE: Red Rock EA - clarification to letter

Paul

Option 5 is land application of treated wastewater so we were assuming that the reasonable use policy would apply.

Regards

Mike Gundry

From: Jordan, Paul (ENE) [mailto:Paul.Jordan@ontario.ca]
Sent: Fri 8/12/2011 11:39 AM
To: Dan Currie
Cc: Kal Pristanski; Kathy Bemben; Jose Casal; Gundry, Michael; davidjmp@shawbiz.ca; Sheriff, Scott (ENE)
Subject: RE: Red Rock EA - clarification to letter

Dan,
The effluent criteria for all of the options listed (with the exception of option3) will be 25mg/l SS, 25mg/l BOD and 1mg/lPhosphorous. Option 3 states a discharge to Trout creek and would likely require additional work to determine whether more stringent receiver based limits would be required. The Ministry has no concerns with the proposal to make use of the existing lagoon systems on the former Norampac property as part of a the municipal sewage treatment system and are willing to work with the parties towards obtaining secondary treatment in Red Rock. Please let me know if there is anything you need from me or anything that I can do to help move this file ahead in a timely manner.
Cheers,
Paul

-----Original Message-----
From: Dan Currie [mailto:DCurrie@enl-tbay.com]
Sent: July 28, 2011 2:58 PM
To: Jordan, Paul (ENE)
Cc: Kal Pristanski; Kathy Bemben; Jose Casal; Gundry, Michael; Dave Pettersen (davidjmp@shawbiz.ca)

Subject: Red Rock EA - clarification to letter

Paul,

For clarification of our letter submitted earlier today, the following are the proposed alternative processes and effluent receivers being considered in the EA:

1) mechanical plant - treated effluent to Nipigon Bay/Lake Superior;
2) aerated lagoon - treated effluent to Lake Superior;
3) aerated lagoon - treated effluent to Trout Creek;
4) facultative lagoon - treated effluent to Lake Superior;
5) EVC System by Northern Watertek Corp. - treated effluent applied to land as liquid or snow;

As noted, we are requesting confirmation of the effluent quality requirements for each alternative.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

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Dan Currie

From: Gundry, Michael [Michael.Gundry@aecom.com]
Sent: August 20, 2011 21:54
To: Kathy Bemben; Dan Currie; Jose Casal
Subject: FW: Red Rock Sewage Proposal

Importance: High

Michael Gundry, P.Eng, PMP
Manager, Water
D 905.668.4021 ext. 2209
michael.gundry@aecom.com

AECOM

300 Water St. Whitby ON L1N 9J2

T 905.668.9363 F 905.668.0221

www.aecom.com

From: Jordan, Paul (ENE) [mailto:Paul.Jordan@ontario.ca]
Sent: Friday, August 19, 2011 4:04 PM
To: Gundry, Michael
Subject: FW: Red Rock Sewage Proposal
Importance: High

From: Gehrels, Jim (ENE)
Sent: August 15, 2011 2:44 PM
To: Jordan, Paul (ENE)
Cc: Sheriff, Scott (ENE); Kondrat, Todd (ENE)
Subject: Red Rock Sewage Proposal
Importance: High

Paul,

There are no groundwater users downgradient of this site. Therefore, the regulatory compliance is not the Reasonable Use Guideline based on ODWO's as is usually done. The main concern is potential impact on the adjacent harbour, assessed using PWQO's as a screening tool (at the point of entry to the harbour). Because this is not a controlled, point-source discharge, there is normally no mixing zone provided.

My recollection is that the soils in the area are of low permeability, and that overland run-off down the relatively steep slopes towards the harbour occurred in the past. Any such overland flow would have to be captured prior to reaching the lake.

Concerned obviously over winter-time operations when ground is frozen and trust that sewage would be stored in lagoons until ground is properly thawed? I am concerned that effluent applied as snow would simply be flushed into the harbour in the spring.

Monitoring using the wells and also any visible overland seeps is OK. Sample for major anions, cations and nutrients. Perhaps Todd can provide additional parameters of interest?

Regards,

Jim Gehrels
Hydrogeologist Group Leader
Northern Region

From: Jordan, Paul (ENE)
Sent: August 15, 2011 2:30 PM
To: Gehrels, Jim (ENE)
Cc: Sheriff, Scott (ENE)
Subject: help!!

Jim
Just a quick question for you which I hope you can help me with concerning the Red Rock sewage treatment proposal. Red Rock is now redoing its ESR to include the EVC process (snowfuent) which would take sewage and run it through treatment to below 25, 25 and 1 following which it would be land applied either through irrigation or as snow. The land application would be on the former Norampac property in the vicinity of the closed landfill site and at least part of the groundwater from the proposal would be captured by the leachate collection system and recirculated back into the sewage treatment system. The question that has come up is what role would the Reasonable Use Guideline play in the planning of this proposal. As mentioned the discharge at the nozels would be of effluent quality which is better than that of secondary treatment. The proposal will also include groundwater monitoring. Please let me know what your feelings on this are.
Thanks
Paul

Dan Currie

From: Jeff White [jwhite@watertek.org]
Sent: September 22, 2011 14:30
To: Kal Pristanski; Gary Nelson; 'Gundry, Michael'; Dan Currie
Cc: 'Gundry, Michael'
Subject: Fw: Red Rock.
Attachments: KP letter Aug 24.pdf

Mr. Pristanski;
I have been advised that the information contained in the following message from Paul Jordan came from you. I believe I am owed an explanation as this is now taking on legal implications of a serious nature.

We sent you a letter on August 24th (attached), clearly indicating the status of information transfer between ENL and Watertek. We contacted Mr. Currie directly and he replied that if he had any further questions he would advise. As you have required all communications go through you then you must be aware that we have had no further requests for information. Further we are now being blamed for holding up completion of the ESR. This is absolute rubbish.
Again I draw your attention to my letter to you of August 24th asking for your help to expedite the ESR completion. I received no response to that letter from you.
In the attached letter I draw your attention to paragraph number one(1) on page one. I also draw your attention to page two, paragraphs numbered five(5) and six(6) That explains our current situation as we have heard nothing from You, OCWA, AECOM, or ENL.
Hopefully this is a simple misunderstanding. If it is not then where is Currie's information request?
We have gone around the hoop twice with Mr. Currie and have been left hanging in mid air on this ESR completion.
We categorically deny that we are responsible for any hold up and ask that you look into this and set the issue straight once and for all.
I will be in Winnipeg next week and could come to Red Rock to discuss this with you and the Mayor.
I cannot exaggerate the consequences of the implications of the information contained in the Jordan e-mail, so I ask that you attend to this matter and get back to me ASAP.
sincerely
NORTHERN WATERTEK CORP.
Jeff White
----- Original Message -----
From: Jordan, Paul (ENE)
To: Jeff White
Cc: Sheriff, Scott (ENE)
Sent: Monday, September 19, 2011 3:21 PM
Subject: Red Rock.

Jeff,

I have been informed that ENL is still waiting for information which is require in order to complete the ESR for the project. Please ensure that the information is sent to the consultant as soon as is possible in order to prevent any delays in moving this forward. In conversations with the Town it appears as though everything is going smoothly and the town is very excited to move ahead with this. One of the issues which I understand the consultant wants more information on is the clean-up of the lagoons and of the lime pile. If this is correct the consultant may wish to talk to me at least about the lime pile. This should not be part of the site prep costs.
Just to reiterate, it is imperative that the information flow between the parties involved be done in as timely a fashion as possible in order to move this project forward. Please let me know if there is anything I can do to help move this project forward or to facilitate better dialogue between the companies.
Thanks
Paul

Mr. Kal Pristanski
Chief Administrative Officer
Township of Red Rock
Red Rock, Ontario

24 August 2011

RE: Wastewater Treatment Plant Upgrade Project
Red Rock, Ontario

Mr. Pristanski:

I hope that this finds you well.

Now that you have clarified the communications protocol regarding the ESR update, I wish to solicit your assistance in expediting this process. Your letter of March 11th of this year and its inferred schedule indicates that August was the target month for this project, the WWTP upgrade, to commence. However, in a brief meeting with ENL a couple of weeks ago, we were stunned by Mr. Currie's (of ENL) comment that the ESR revamping would take until possibly the end of October to complete. This unforeseen delay of the better part of two years is absolutely incomprehensive and if allowed, will place the successful execution of the waste water treatment plant upgrade in jeopardy, possibly into 2012, or even 2013.

As the date on the calendar currently stands, no construction can possibly take place this year. Site mobilization and subsequent commencement of construction requires multiple preliminary steps to be completed. Paramount of these is the finalization and implementation of the monitoring well program. MOE will require this supporting data from us first, related to upgrade and downgrade ground water measurements prior to the approval and subsequent commencement of operations. This issue has been discussed this with MOE in depth, using the data they provided us to date on the mill site area as a benchmark. Ongoing operations and continued maintenance of some of the existing facilities are necessary components to the upgraded system, providing aeration and overflow capture to prevent any spills into the Lake.

As we have indicated in our project scope, a complete geotechnical survey of the site will confirm the system designs proposed. Further, EAAB of MOE requires confirmation of the existing soil profiles and chemical content prior to approval. Without their consent, construction of any kind may not commence.

A site topography, boundary and location survey is also necessary to confirm piping lengths, invert elevations, and facilities locations. Dimensioned layout drawings are used to order long lead time equipment and material so that all system components are available for installation once the spring construction season begins. The Global Economic slowdown has made equipment and material that comes from the United States in even shorter supply as inventories shrink and delivery time increase, potentially affecting costs and schedule.

Most importantly, MOE Thunder Bay has also expressed potential project funding concerns should the government change in early October. Unconsummated projects may Have funding held up by a new government if they choose to review all pending works, potentially deferring the project until 2013, or later.

THE ESR

The final adjustments to the ESR for this project should take, at the outside, five days. ENL's efforts to analyze a process that took years to develop in a few hours are unnecessary and counterproductive.

A statement inserted into the current ESR that indicates the EVC* proposal was considered previously would suffice. Therefore, the requested clarification submittal based on receipt of "Additional Information" and additional proponent (Township of Red Rock) directions, confirms the EVC* proposal has now been determined to be the "Preferred Alternative."

Doris Dumais, Director of EAAB, in her letter of May 18th 2011, clearly states the consideration of Watertek's EVC* process is acceptable, subject to site specifics. Watertek always makes its EVC* submittals to MOE during the prescribed approval process, in accordance with standard protocol.

In the interest of cooperation, we have responded to ENL's questions in their entirety, consuming considerable resources in the preparation of the response. During ENL's review, several vague questions, many not relevant to an ESR, Class EA procedures were asked.
Following our response submittal, MOE reported that ENL felt that several of "our answers" were vague. We asked Mr. Currie of ENL directly to indicate which response(s) in particular were in question. He said he would let us know; since that date, we have heard nothing.
. Our position remains that the answers we provided were and are indeed complete; in spite of the fact the many of the questions posed, often had little or nothing to do with the ESR procedures.
As a point of reference, Senior MOE people with whom we have consulted on this matter have indicated in graphic detail that that time frame is unacceptable.

This potential delay could place Red Rock into a non-compliance situation with respect to current discharges, that could cost the Township significant money should MOE feel that the delays are inexcusable. We will continue to do everything to prevent that on your behalf and, in fact, that is the main reason to maintain the dialogue with MOE so they are aware of the current status.

The Approvals procedures require that we work with Thunder Bay MOE in any event.

Based on your letter of March 11th, we have responded in good faith to the queries of ENL Now that we are facing these inordinate delays, Red Rock asked us to further consider the mill site, Option "B"; we have designed an effective, innovative system that will be an industry leader.
We are at your disposal to assist ENL in the completion of the ESR, if invited.

This system (involving various techniques is established and known to MOE) only requires the knowledge that the raw sewage at Red Rock is within the standard range of constituent contaminants (MOE Design Manual), albeit diluted, and been taken into account. ENL has again changed the flow criteria which we adapted to without comment, despite previously offering our opinions on that parameter. An ESR approval submittal is not the venue to debate flow quantities. The final ground water analyses as determined by MOE will constitute the effluent constituent concentrations for compliance. ENL's queries on intra-process concentrations are (undoubtedly) beyond the scope of their work and of questionable value

ENL's inflexibility as to the out-dated interpretations of MOE regulations for Spray Irrigation, clearly show their limited knowledge on this topic, which is why we have offered to assist them.

If the delay continues unabated, we will ask MOE's EAAB to review the ESR ultimately submitted. The conclusion might well be: "a make work" exercise is involved here, with unnecessary expenditures of time and resources. If it is subsequently determined that there was expectations of downstream involvement by the "team", this could constitute a conflict of interest, certainly not in the best interests of Red Rock nor the taxpayers of Ontario. The ESR is not an instrument for such expectations, and I said above, sadly does not serve the Township well at all.

Watertek's challenge is to continue to hold costs in line, if we are to be considered for this project. We trust that based on the communications to date, the final ESR submission would be reviewed by us ***prior to forwarding to MOE***, as ENL has shown a serious lack of understanding of the EVC* approach. Consequently, we are concerned about potential misrepresentations that could be easily avoided and lead to further delay

Kal, we definitely need your help here.

I respectfully ask that you consider our mutual experience in this review letter. You have the authority and the overall view that will serve Red Rock best. Under the current realities of the pending election we ask that you respond to this, by the end of the month.

Sincerely,

Cc: Mayor and Council of The Township of Red Rock

NORTHERN WATERTEK CORPORATION
115 Deerfox Drive,
OTTAWA, ON., K2J 4W4,
613-255 2890 www.watertek.org

MEMO: To Kevin Muloin, Cam Burgess, Tim Pile (SGC)

for hand delivery to Mayor Gary Nelson-Township of Red Rock.

Date September26th/11

TASK: The Mayor has asked for an indication of items affecting the cost increase from the original proposal of Option "A" at 5,061,600$ plus taxes to Option "B" at 8,979,460$ plus taxes. This entails the shifting of the plant site to south of the paper mill from the original location NW of the town site.

The concept of the proposal by Watertek changed significantly with the realization that Red Rock did not have the facility to absorb unforeseen costs and contingencies that are normally associated with such complex projects. It became essential that all cost contingencies be included in the proposal cost to protect Red Rock.

The Design-Build format serves this concept well. However, The risk normally that of the client for extras will be borne by Watertek. There will be no extras or cost over runs put upon the client, Red Rock.

The Initial proposal non-inclusive of those risks was 5,061,600$. The current price is stable at 8,979,460$ plus taxes , which are fully recoverable. This is a 79.6% increase in cost.
In fact Watertek's costs have rise 87.6% plus exchange losses on the value of the Canadian dollar, as major equipment , pumps, compressors, motors instrumentation and control equipment come from the USA. These items are not made in Canada. Watertek is holding this cost for the foreseeable future to attempt to remain below Red Rock's budget, in good faith.

THE BASIC REASONS for the change in cost to Red Rock is the all inclusive risk and elimination of any contingencies being included in the price quoted.

1) Increase in system capacity of 40% involving increased machinery costs across -the-board.
2) Change of sewage loading specifications by ENL to average 900 m3/day and peak loading of 4540m3/day.
3) Elimination of partial use of the existing facilities by ENL for retention of peak flows requiring installation of a completely new Lift Station adjacent to the existing waste water treatment plant. This is a three pump, fully automatic lift station designed to handle regular flows on a duplex concept and the installation of a major pump(75 HP) to handle peak loads. As well, a standby diesel powered

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genset will be included to ensure discharge of sewage to lagoon B-1 in all conditions as well as heat the building, if power fails. .This lift station will require explosion-proof electrical equipment due to the requirement of a wet well in the design. This change has added some 923,000$ in costs alone.

4) With the new peak flows established by ENL at 4540m3/d the pipeline to carry sewage to the mill site plant has to be increased from 4" diameter to 8" diameter. This is a major cost increase that must be accommodated. The installation is a major cost increase as it is a machinery rather than a manual installation because of weight of pipeline and difficulty of handling.
5) The inclusion of all contingent items such as as utilities -hydro, telephone, water supply, drilling and blasting etc.
6) Degree of difficulty for construction on the mill site is two degrees higher than the Option "A" site which essentially a flat property.
7) Engineering work to date required to respond to ENL's inquiries.--over 300,000$ worth of work—market value.--including:Exhibit "C"-- 6 revisions-Change of Site to Option "B"
Response to Questions- ENL # 1
Response to Questions – ENL # 2

8) Increase in Towers to 4 including extra pipeline
9) Spare parts inventory—Manufacturers recommendation for rotating machinery
10) Analyses of sewers annually for 5 years—Television examination –including reports 30-40,000$ per year—
11) Includes Extention of warranties to 5 years—rotating machinery in particular from normal 1 year warranty. That is a 2% to 17% increase in cost of machinery.
12) Special coating for pipeline to towers to prevent external corrosion. Also pipeline wall thickness increased from normal .188" to .250"
13) Increase in diameter of 50% of process pipeline to towers #1 and 2
14) Installation of Nitrate recycling system from B-3 to B-1. Including extra pipeline –see Fig 10—Exhibit "C"
15) Credit for not building Lagoons and Filter in Option "A" This amounts to 673,000$.
16) Aeration system for year around operation in lagoon B-1
17) Refurbishing of existing aeration system.
18) Increased requirement for terrain grading and drainage to prevent surface runoff.
19) Lagoon analysis of residual solids
20) Additional repairs to existing security fencing and lighting
21) Additional new fencing

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613-255 2890 www.watertek.org

22)Additional soils analysis of old landfill site.
23)Inclusion of leachate pumping recirculation system for old landfill site.
24)Increased costs for 64 pair communications cable between Main Control Building, Lift Station, Utilities Manager's office, aeration plant and Leachate pumping systems-
25)Increase in dimensions of Main Control Building to accommodate larger machinery —20% area increase.-meets legal industrial standards.
26)David Pettersen's wages shared by agreement with Council to be decided.

27)Increase in fuel and lubricants costs
28)increase in machinery and equipment costs as inventories decrease costs and deliveries increase. Note: Watertek has done its best to hold these prices firm for over a year. The machinery cost increase overall, since the original proposal in 2009 has increased by 11 %
29)Supervision of dismantling of existing Waste` Water Treatment Plant two(2) years after approved performance by MOE.

30)Note: no charge for operation for 5 years.

Respectfully submitted by:
Northern Watertek Corp.

Jeffrey A. White P.Eng.

Dan Currie

From: Kal Pristanski [cao@shawbiz.ca]
Sent: September 27, 2011 13:24
To: 'Jose Casal'; Dan Currie; 'Gundry, Michael'
Subject: FW: Red Rock.

Good afternoon gentlemen. I responded to Mr. White last Saturday when I returned from a conference and hit only reply not reply all. Please see my response below.

Have a good day.

kal

From: Kal Pristanski [mailto:cao@shawbiz.ca]
Sent: September 24, 2011 12:53 PM
To: 'Jeff White'
Subject: RE: Red Rock.

Mr. White.

We have asked on two occasions in the last 5 months, in writing, to get information from you regarding your proposed system to complete the ESR and you continue to evade or ignore some questions in your responses. Failure on your part to be co-operative has been the only cause for delay to this project and can only be detrimental to a successful outcome for you. Council has made it very clear that they will not make a decision on which system they will select and will await the outcome of the Report. The Report is being finished and there will unfortunately be some items highlighted in the report because once again, you have failed to provide the requested information. Again, this can only hurt your chances of a successful decision but once again it has been you who has not provided the information.

Council and administration has bent over backwards to allow you to proceed with your proposal and been extremely patient with you in the past and still views your option as one to be considered but without the proper information they may well be not in a position to defend your proposal to the funding agencies. How many times must we ask for information? Council has directed the ESR to be completed with the information it has. Your refusal to provide information on capital and operating costs so a proper comparison can be made with other proposed systems is a major gap that Council will unfortunately have to take into consideration when it makes its decision.

Council has expressed to you that they will not be making any decision on a system until the ESR is completed with proper analysis and recommendation from our experts. As much as you would like to circumvent this process that is the decision of Council and that is how they are proceeding.

Mr. Jordan has been in contact with us regarding your proposal and while they too may have an interest in your proposal we have explained to them what we have mentioned above that your refusal to co-operate and provide the required information that we have requested on at least two occasions may well jeopardize your position. He in his note below is encouraging you to co-operate.

All of your correspondence has been brought to Councils attention. Your threat of legal action below is without basis and will be brought to Council's attention also.

Yours truly

Kal Pristanski, CAO
Township of Red Rock

From: Jeff White [mailto:jwhite@watertek.org]
Sent: September 22, 2011 2:33 PM

To: Kal Pristanski; Gary Nelson; Dan Currie; Jose Casal; 'Gundry, Michael'
Subject: Fw: Red Rock.

Mr. Pristanski;
I have been advised that the information contained in the following message from Paul Jordan came from you. I believe I am owed an explanation as this is now taking on legal implications of a serious nature.

We sent you a letter on August 24th (attached), clearly indicating the status of information transfer between ENL and Watertek. We contacted Mr. Currie directly and he replied that if he had any further questions he would advise. As you have required all communications go through you then you must be aware that we have had no further requests for information. Further we are now being blamed for holding up completion of the ESR. This is absolute rubbish.
Again I draw your attention to my letter to you of August 24th asking for your help to expedite the ESR completion. I received no response to that letter from you.
In the attached letter I draw your attention to paragraph number one(1) on page one. I also draw your attention to page two, paragraphs numbered five(5) and six(6) That explains our current situation as we have heard nothing from You, OCWA, AECOM, or ENL.
Hopefully this is a simple misunderstanding. If it is not then where is Currie's information request?
We have gone around the hoop twice with Mr. Currie and have been left hanging in mid air on this ESR completion.
We categorically deny that we are responsible for any hold up and ask that you look into this and set the issue straight once and for all.
I will be in Winnipeg next week and could come to Red Rock to discuss this with you and the Mayor.
I cannot exaggerate the consequences of the implications of the information contained in the Jordan e-mail, so I ask that you attend to this matter and get back to me ASAP.
sincerely
NORTHERN WATERTEK CORP.
Jeff White
---- Original Message -----
From: Jordan, Paul (ENE)
To: Jeff White
Cc: Sheriff, Scott (ENE)
Sent: Monday, September 19, 2011 3:21 PM
Subject: Red Rock.

Jeff,

I have been informed that ENL is still waiting for information which is require in order to complete the ESR for the project. Please ensure that the information is sent to the consultant as soon as is possible in order to prevent any delays in moving this forward. In conversations with the Town it appears as though everything is going smoothly and the town is very excited to move ahead with this. One of the issues which I understand the consultant wants more information on is the clean-up of the lagoons and of the lime pile. If this is correct the consultant may wish to talk to me at least about the lime pile. This should not be part of the site prep costs.
Just to reiterate, it is imperative that the information flow between the parties involved be done in as timely a fashion as possible in order to move this project forward. Please let me know if there is anything I can do to help move this project forward or to facilitate better dialogue between the companies.
Thanks
Paul

_____ Information from ESET NOD32 Antivirus, version of virus signature database 6490 (20110924)
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The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 6490 (20110924)
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Dan Currie

From: Kal Pristanski [cao@shawbiz.ca]
Sent: October 3, 2011 14:17
To: 'Jordan, Paul (ENE)'
Cc: Dan Currie; Kathy Bemben; 'Sheriff, Scott (ENE)'
Subject: RE: Red Rock

Good afternoon Paul. I made a phone call to clarify ENL's position with regard to your comments below. They seem to think you may have assumed some things as are very cautious about talking about this project and only stated to you that they are proceeding with the open house and the ESR. They did not say they had all the information that was asked for from Mr. White just that they are proceeding with the information they have. Even with the correspondence received from Mr. White this morning he has still left out some information. This will leave gaps in the analysis and Mr. White has been advised of this and his non-cooperation will detrimental to his proposal.

On another note, please be advised that the Township does not deal with Mr. Muloin but with Mr. White directly.

Kal Pristanski, CAO
Township of Red Rock

From: Jordan, Paul (ENE) [mailto:Paul.Jordan@ontario.ca]
Sent: October 3, 2011 10:48 AM
To: Jeff White; Kal Pristanski
Cc: Kevin Muloin; Sheriff, Scott (ENE)
Subject: Red Rock

I spoke to Dan Currie from ENL today and he stated that he has been given all of the information he has asked for from NWC in order to proceed with the ESR. He stated that the ESR is progressing and that public information sessions are being planned for October. Looks like everything is going smoothly.
Paul

_____ Information from ESET NOD32 Antivirus, version of virus signature database 6513 (20111003)
_____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

_____ Information from ESET NOD32 Antivirus, version of virus signature database 6513 (20111003)
_____

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

Dan Currie

From: Jeff White [jwhite@watertek.org]
Sent: October 17, 2011 08:41
To: Dan Currie
Subject: ESR copy

Dan:
Exercising perogatives under the "Hat:" of professional courtesy could we recive a copy of the ESR to be presented at Red Rock on the 26th of October.We do understand it is a public document.

If there is a cost we would be prepared to pay for the same. The submissions we made (3) were significant and involved a great deal of work and it is on this basis we ask for a copy.

We ask that it would be sent to our Ottawa address, by courier, if possible.

Thank you,
sincerely
NORTHERN WATERTEK CORP.
Jeffrey A. White P.Eng.
613 255 2890

Dan Currie

From: Aaron Nicholson [aaron.nicholson@lakeheadu.ca]
Sent: October 31, 2011 11:33
To: Dan Currie
Subject: Re: Red Rock

Hi Dan,

Email received. I will pass this information on to the committee.

Thanks,

Aaron.

On Mon, Oct 31, 2011 at 10:51 AM, Dan Currie <DCurrie@enl-tbay.com> wrote:
Hi Aaron,

As you know, we held the second Public Consultation Centre in Red Rock yesterday evening regarding the Wastewater treatment plant upgrades.

David Crawford requested that I send you the information displayed, please see attached.

We would be please to answer any questions you may have and would appreciate your comments before November 23, 2011.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Kathy Bemben

From: Dan Currie
Sent: November 7, 2011 2:11 PM
To: Kathy Bemben
Subject: FW: Red Rock
Attachments: evaluation matrix oct25-2011.pdf; compilation of new slides.pdf; OBM with Official plan OP Schedule B-OCT-7-11.pdf; OBM with Official plan OP Schedule C -OCT-7-11.pdf

See below...

-----Original Message-----
From: Doug.Yurick@pc.gc.ca [mailto:Doug.Yurick@pc.gc.ca]
Sent: November 7, 2011 13:36
To: Dan Currie
Subject: Re: Red Rock

Hi Dan:

I've now had a quick look at the material you sent (it arrived three times on Friday, but every message and its attachments are identical as far as I could determine).

My primary reaction is that I find it quite surprising that neither the public presentation document, under the heading of Environmental Screening, nor the maps make any reference to the national marine conservation area or to the boundary that was agreed to by Canada and Ontario upon signing an agreement for the Lake Superior National Marine Conservation Area in October 2007. That boundary is some distance out from the waterfront at Red Rock to avoid existing discharge pipes and the marina. However, it is relevant to the project you are involved with because the Canada National Marine Conservation Areas Act prohibits the discharge of polluting substances inside the boundary of an NMCA.

There is unlikely to be a problem with either of the two waste-water treatment options that remain under consideration according to your public presentation so long as the point of discharge would be outside the NMCA boundary. However, whether that is the case depends on an evaluation of mapped information. I am working presently to obtain a better, survey-based map of the NMCA boundary in front of Red Rock than is provided in the 2007 agreement. Meanwhile, the map that you provided does not enable me to understand precisely where the outlets would be for either of the waste-water discharge options that are still under evaluation.

I will send a map of the NMCA boundary as soon as I receive it.

Doug

Doug Yurick
Conseiller principal, Programme marin | Senior Advisor, Marine Program Direction générale de l'établissement des aires protégées et de la conservation |
Protected Areas Establishment and Conservation Directorate Agence Parcs Canada | Parks Canada Agency
25 Eddy (25-4-R)
Gatineau, QC K1A 0M5

Doug.Yurick@pc.gc.ca
Téléphone | Telephone: 819-997-4910 / Télécopieur | Facsimile: 819-994-5140
Gouvernement du Canada | Government of Canada

100 ans, Soyez de la fête! | 100 years, Come Celebrate!

From: Dan Currie <DCurrie@enl-tbay.com>
To: "doug.yurick@pc.gc.ca" <doug.yurick@pc.gc.ca>
Date: 04/11/2011 05:02 PM
Subject: Red Rock

As discussed, please find the information displayed at the Public Consultation Centre attached.

If there are any questions or comments, please feel free to call.

Regards,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

This message, including any attachments, is privileged and may contain confidential information intended only for the person(s) named above. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by reply email and permanently delete the original transmission from use, including any attachments, without making a copy.

(See attached file: evaluation matrix oct25-2011.pdf)(See attached file: compilation of new slides.pdf)(See attached file: OBM with Official plan OP Schedule B-OCT-7-11.pdf)(See attached file: OBM with Official plan OP Schedule C -OCT-7-11.pdf)

Waste Water Treatment Plant Upgrade
Township of Red Rock

PUBLIC CONSULTATION CENTRE

Red Rock Recreation Centre
19 Brompton Road, Red Rock
Wednesday, October 26th, 2011
4:00 PM to 7:00 PM

COMMENT SHEET

General Comments

Your comments are appreciated. Please comment on any aspect of the project which you consider to be important and drop your completed comment sheet in the box provided. Comments and information regarding this study are being collected to assist the Township of Red Rock, and to meet the requirements of the Municipal Class Environmental Assessment. If you are unable to respond at this time, please submit your comments by **November 23th, 2011** to:

Kathy Bemben, P. Eng., Project Manager
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

COMMENTS:

① WITH THE FLOW RATE CHANGES FROM OPEN HOUSE #1 TO THE drop in OPEN HOUSE #2. DOES THIS ALLOW FOR FUTURE GROWTH OF THE TWSP.

② THE COST FOR THE RECOMMEND PROCESS BY you. IS THIS A GUARANTEED PRICE?
Please. --

③ INCLUDE THE ATTACHED LETTER DATED NOV 11, 2011 AND ATTACHED "INITIAL SCREENING OF ALTERNATIVE SOLUTIONS" AS PART OF COMMENT SHEET. ---- THANK-YOU.

November 11th 2011

Engineering Northwest Ltd.
302 -200 S. Syndicate Ave
Thunder Bay, ON
P7E 1C9

Attention: Kathy Bemben, P.Eng
Project Manager

Dear Ms. Bemben:

In your 1st report obtained at the Open House in Red Rock April 2010 regarding "Utilize Existing Red Rock Mill Lagoon" you listed four reasons why not to use the lagoons and your last comment was "This alternative will not be evaluated further."

In your 2nd report at the Open House this October, 17 months later you recommend using the existing Mill Lagoons.

In your reports and documents you list Township of Red Rock, OCWA, ENL and Aecom . Are the funds provided for this 2 year Municipal Class Environmental Assessment provided by our Government, and if so, I am sure the process is open and transparent. As a taxpayer please send me a detailed report on the amount received and how it was disbursed.
Please attach this letter and your report on.. Utilize Existing Red Rock Mill Lagoon as part of my Comment Sheet.

Respectively Submitted:

Copy: Minister M.Gravelle

Initial Screening of Alternative Solutions

Utilize Existing Red Rock Mill Lagoon

- Using the lagoon would potentially limit the use of the Mill in the future, potentially affecting employment
- If environmental issues exist at the Mill Lagoon site, the Township would be inheriting these.
- Studied in the past, but discounted due to issues with waste stream characteristics and operator requirements
- Equipment has been removed from site, and owner is not able to be contacted
- This alternative will not be evaluated further

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301-200 S. Syndicate Ave.
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

COMMENTS: I was upset that the rep from OCWA told me to take a comment sheet and stop arguing with the representatives. The purpose of an open house is to ask questions and that is what I was trying to do. I was not satisfied with answers regarding the cost estimate for the preferred option. This option is on a brownfield site which the engineers did no research. No information was gathered regarding the sediment on the bottom of the lagoons or how you treat the leachate from the landfill site ajacent to the lagoons.

Waste Water Treatment Plant Upgrade
Township of Red Rock

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Engineering Northwest Ltd.
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Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

COMMENTS: An open house is intended to allow public to ask questions regarding a project and all the potential options. However, representatives from OCWA were irritated at having to answer an individuals' questions, that I witnessed, and asked the individual, in an ignorant and condescending manner, to stop asking the questions and just fill in the comment sheet with the questions and send it in. What are you trying to hide? What's the point of the open house if your views are different than what is presented? Costs have changed dramatically from the last open house - why? Can I be sure that it is just the reduced flow rate? Does that mean you improperly prepared the last one? Was it to acquire an excessive amount of funds.

PLEASE PRINT

over.

Your comparisons of the various options was not comparing systems of equal values. You have failed to determine what the plans are for removal of the contaminated sediment at the bottom of the lagoons. Do you know whats in there? Do you know if the product is toxic? Have you investigated? There were no answers to these questions on your presentation. How can you determine the value of putting in these systems if you have failed to determine if the sediment is toxic and needs to be shipped to the nearest toxic landfill site – and at what cost. These must be included in any potential system before an informed desicion can be made.

For the amount of work that was presented, it really took a long time for the open house. Did you not already have most of the information already from the previous one?

Waste Water Treatment Plant Upgrade
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COMMENTS:

1/ Concerns over effluent from project going into Lake Superior
→ why use this process, is there not a superior technology with no effluent going into our water source

2/ Concerns over leakage of leach leachate into water bodies and water table

3/ Building on existing brownfield site, are there studies about what is there and costs to remediate

Waste Water Treatment Plant Upgrade
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E-mail: kbemben@enl-tbay.com

COMMENTS:

I AM CONCERNED WITH THE ON-GOING PRATICE OF DISCHARGING WASTE WATER EFFLUENTS INTO NIPIGON BAY. THIS PROCESS WILL ONLY CONTINUE TO PLACE VERY HEAVY BURDENS ON OUR LAKES AND RIVERS

Waste Water Treatment Plant Upgrade
Township of Red Rock

PUBLIC CONSULTATION CENTRE

Red Rock Recreation Centre
19 Brompton Road, Red Rock
Wednesday, October 26th, 2011
4:00 PM to 7:00 PM

COMMENT SHEET

General Comments

Your comments are appreciated. Please comment on any aspect of the project which you consider to be important and drop your completed comment sheet in the box provided. Comments and information regarding this study are being collected to assist the Township of Red Rock, and to meet the requirements of the Municipal Class Environmental Assessment. If you are unable to respond at this time, please submit your comments by **November 23th, 2011** to:

Kathy Bemben, P. Eng., Project Manager
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

COMMENTS:

WHAT HAPPENS TO THE LEACHATE FROM THE DUMP SITE LOCATED ON THE RED ROCK MILL SITE? WHAT ARE YOUR PLANS TO MITIGATE THIS SITUATION?

Waste Water Treatment Plant Upgrade
Township of Red Rock

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Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

COMMENTS:

Since your 1st Open house in April of 2010 your plans and design have changed considerably. Is using the mill ponds and then discharging into the lake still considered secondary treatment. Will there be a 3RD open house?

Waste Water Treatment Plant Upgrade
Township of Red Rock

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E-mail: kbemben@enl-tbay.com

COMMENTS: Your Planning and design is now using the existing Mill Lagoons. Will these lagoons be emptied first, and if so where will the toxins be disposed. I have not seen any environmental studies on what is in the lagoons.

Waste Water Treatment Plant Upgrade
Township of Red Rock

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COMMENTS: AT A RECENT GREAT LAKES WATER QUALITY (GLWQ) MEETING, AND UNDER THE TOPIC OF AREAS OF CONCERN WHICH NIPIGON BAY IS CLASSIFIED I QUOTE----

"GOVERNMENTS AT ALL LEVELS ARE TAKING ACTION TO ADDRESS ENVIRONMENTIAL THREATS. KEY ECOLOGICAL STRESSORS INCLUDE: - WATERBORNE PATHOGENS, FECAL MICRO-ORGANISMS, HARMFUL ALGAE BLOOMS AND FISH AND WILDLIFE DISEASES.

WITH THE SYSTEM YOU RECOMMEND USING THE MILL PONDS THEN DISCHARGE INTO NIPIGON BAY ELIMINATE PATHOGENS AND FECAL MICRO-ORGANISMS?

Waste Water Treatment Plant Upgrade
Township of Red Rock

PUBLIC CONSULTATION CENTRE

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Wednesday, October 26th, 2011
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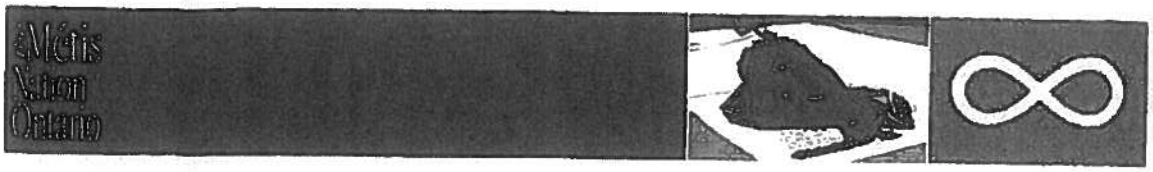
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

COMMENTS: • AS AN ANGLER I DON'T WANT RED ROCK to discharge ANY WASTE WATER INTO LAKE SUPERIOR.
• HAS ANY SCIENCE AND DATA BEEN COLLECTED REGARDING building ON A BROWN FIELD TO ARRIVE AT THE ESTIMATED COST.
I will support INNOVATIVE TECHNOLOGY THAT will PREVENT HORMONES AND CYSTS ETC. by NOT discharging WASTE WATER to LAKE SUPERIOR. NIPIGON BAY HAS BEEN IDENTIFIED AS A HOT SPOT CLEAN UP AREA UNDER THE REMEDIAL ACTION PLAN FOR TOXIC CLEAN UP.



November 18th 2011

Engineering Northwest Ltd.
200 S.Syndicate Ave, Suite 301
Thunder Bay, ON
P7E 1C9

Attention: K. Bemben, P.Eng.
Project Manager, Red Rock Waste Water Project

Dear Ms. Bemben:

We write in response to the information sent on the above project. Projects like these trigger the duty to consult and accommodate our Aboriginal title and rights, in keeping with the honour of the Crown and the promise of s.35 of the Constitution Act, 1982 to the Metis Nation.

The Metis Nation has Aboriginal rights to the lands, water and natural resource within the area that your Project is proposed. Therefore, you are required to meaningfjully consult with the potentially affected rights-bearing Metis community, as represented by the Metis Nation of Ontario. Meaningful consultation requires more than attending an Open House and may require a face to face meeting with the Consultation Committee and all interested parties, Ocwa, Twsp of Red Rock, Ministry of Environment etc.

You should also be aware that the rights-bearing Metis communities are regional in size and scope and our traditional territories are expansive. Therefore, in order to ensure the duty is dicharged to the entire rights-bearing Metis community, we may need to work with other MNO Community Councils and other goverance structures within the MNO to ensure all members of the potentially affected rights-bearing Metis community have the opportunity to be consulted.

The courts have made clear that when our Aborignal right may be affected, we must be engaged in a meaningful way, for consultation to have been deemed to have taken place. Any consultation that takes place must be undertaken with the intention of substantially addressing our concerns and interest.

Funding – the Crown and or developer must fully fund the rights-bearing Metis community's participation in the consultation process. Funded participation includes, but is not limited to, research, analysis and the preparation of materials needed to determine the potential effects of

the Project. It may also involve participation in environmental hearings, information meetings and consultation with our communities.

At this stage, we are informing you that Cameron Burgess, Chair of the Region 2 Consultation Committee has declared " A Conflict of Interest" and Robert Graham will be the Chair on this Project.

Please provide us with sufficient information to enable us to determine whether the Project may Impact our Aboriginal rights.

We look forward to hearing from you.

Yours truly,

Joe Daze

Joe Daze
Coordinator- Metis Nation of Ontario
Lands, Resources and Consultation
231 Brodie St. S
Thunder Bay, ON P7E 1C1

Copy to:
Melanie Paradis
Director – LRC Branch – Metis Nation of Ontario

Copy to:
Director of Environmental Approvals Branch
Ministry of the Environment, 2 Clair Avenue West, Floor 12A
Toronto, On M4V 1L5

NORTH SHORE
OF LAKE SUPERIOR
REMEDIAL ACTION PLANS

Kathy Bemben
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, Ontario
P7E 1C9
Tele: (807) 623-3449 ext 225
E-mail: kbemben@enl-tbay.com

Monday November 28th, 2011

Dear Kathy Bemben,

The Nipigon Bay Remedial Action Plan Committee held a general meeting on November 15th, 2011 to discuss the Environmental Assessment process for upgrading the Red Rock Waste Water Treatment Plant (WWTP). Agencies and public representatives involved with the RAP program have been working over the last three years to identify and target any remaining and/or outstanding issues that require resolution before delisting could occur. Due to the extensive remedial efforts conducted during the 1990's, many RAP related projects have been completed and the RAP committee now focuses its attention on ecological monitoring and continues to investigate remaining priorities for ecosystem restoration.

Implementing secondary treatment upgrades to the Red Rock WWTP is one of the major remaining remedial actions to be completed within this program. All partners and proponents are critical in enabling the Nipigon Bay RAP to transition towards Stage 3 status (i.e. delisting Nipigon Bay as an Area of Concern). We would like to congratulate the Township of Red Rock and Engineering Northwest for continuing to pursue WWTP upgrades and for consulting the public during the Environmental Assessment phase of this project. Although the committee does not feel as though they have adequate technical information to advocate for a particular treatment option, we urge the township to update and/or expand the WWTP on either the existing or an alternative site. We also would encourage communication with Parks Canada to ensure the WWTP outfall pipe does not fall within the boundaries of the Lake Superior National Marine Conservation Area.

Please keep our committee updated with your progress. We would be happy to provide consultation on any future phase of the project.

Sincerely,

David Crawford
Public Advisory Committee (Chairman)
Nipigon Bay Remedial Action Plan
RC-3000, Lakehead University
955 Oliver Road, Thunder Bay, ON
Canada P7B 5E1. Ph: 807-343-8514

ENL
Engineering Northwest Ltd.
Consulting Engineers

December 1, 2011

PN 09080 – Env.

The Métis Nation of Ontario
231 Brodie Street South
Thunder Bay, Ontario
P7E 1C1

Attention: **Joe Daze**
Co-Ordinator – Métis Nation of Ontario
Lands, Resources and Consultation

Dear Sir:

Re: Township of Red Rock
Wastewater Treatment Plant Upgrades
Class Environmental Assessment

We are in receipt of your letter dated November 18, 2011 regarding consultation with the Métis Nation of Ontario as it pertains to the above project. As part of the Class Environmental Assessment process, consultation with the public, interested parties, Aboriginal groups, and government review agencies takes place.

A Public Consultation Centre (PCC) was recently held for this project to provide alternative design recommendations to the public and to receive input and comments from interested persons, groups and agencies.

The notice of the PCC was sent to the Métis Nation of Ontario offices at:

- Métis Nation of Ontario Head Office in Ottawa
- Métis Nation of Ontario LRC Branch Office in Toronto
- Métis Nation of Ontario Regional Office in Thunder Bay

The environmental Study Report (ESR) which will summarize the Public Consultation process, and provide recommendations for the project, is anticipated to be completed and placed on the public record for review early in 2012. You will be provided with notice when the document is available for review, and where it can be accessed for review.

We are enclosing a copy of the display material presented at the PCC, for your review and information. Would you please review this information and advise our office if this is sufficient for you to determine whether the project may impact the Métis Nation of Ontario's aboriginal rights.

If there is additional information required, please advise our office and we can then proceed with additional consultation with the Métis Nation of Ontario.

Cont'd ....

If there are any questions, please do not hesitate to contact the undersigned.

Yours very truly,

ENGINEERING NORTHWEST LTD.

for K. Bemben, P.Eng.
KB:dc
Encl.

Cc. K. Pristanski, Township of Red Rock
J. Casal - OCWA
M. Paradis, Métis Nation of Ontario

E:\ENL\PN09080\Environ\Metis Consultation\MetisNation-let-Dec1-2011.docx

Kathy Bemben

From: Kal Pristanski [cao@shawbiz.ca]
Sent: February 23, 2012 9:15 AM
To: Kathy Bemben
Subject: FW: Red Rock wastewater treatment plant

-----Original Message-----
From: Doug.Yurick@pc.gc.ca [mailto:Doug.Yurick@pc.gc.ca]
Sent: December 9, 2011 8:58 AM
To: Kal Pristanski
Cc: ray.boudreau@pc.gc.ca
Subject: RE: Red Rock wastewater treatment plant

Good morning Kal:

I can assure you that discussions have been underway between me, Ray Boudreau and others to resolve this. You should expect to receive a letter from Parks Canada soon.>

As an interim message, I want to assure you that the NMCA boundary described in the 2007 federal-provincial establishment agreement is not yet a legislated boundary, i.e., already incorporated into the Canada National Marine Conservation Areas Act. It appears that my note to the engineer may have led you to conclude otherwise.

Best wishes;
Doug

Doug Yurick
Conseiller principal, Programme marin | Senior Advisor, Marine Program Direction générale de l'établissement des aires protégées et de la conservation |,
Protected Areas Establishment and Conservation Directorate Agence Parcs Canada | Parks Canada Agency
25 Eddy (25-4-R)
Gatineau, QC K1A 0M5

Doug.Yurick@pc.gc.ca
Téléphone | Telephone: 819-997-4910 / Télécopieur | Facsimile: 819-994-5140
Gouvernement du Canada | Government of Canada

100 ans, Soyez de la fête! | 100 years, Come Celebrate!

From: "Kal Pristanski" <cao@shawbiz.ca>
To: <Doug.Yurick@pc.gc.ca>
Date: 08/12/2011 02:28 PM
Subject: RE: Red Rock wastewater treatment plant

Dear Doug. Council reviewed your e-mail (below) at their regular meeting of Council on December 5th, 2011. Needless to say they were not pleased.

I have instructions as to how we will be proceeding with this matter.

Before I start the campaign I would like to give you the opportunity to review your stance as you outlined below. If nothing has changed we will proceed.

Thank you.

Kal Pristanski, CAO
Township of Red Rock

-----Original Message-----
From: Doug.Yurick@pc.gc.ca [mailto:Doug.Yurick@pc.gc.ca]
Sent: November 18, 2011 12:18 PM
To: Dan Currie
Subject: Re: Red Rock wastewater treatment plant

Hi Dan:

Gail raised this with me at that time. The NMCA boundary had already been set, i.e., when the NMCA establishment agreement was signed by Canada and Ontario in October 2007. Amending a legislated NMCA boundary can only be done with Parliament's consent, and for that reason you should plan on
having the outlet not extend beyond the NMCA boundary. That said, the two
narrow outward projections beyond the general orientation of the boundary (see the plan I sent you) should provide out-of-boundary corridor options if one or both is not dedicated to freshwater intake purposes.

Doug

From: Dan Currie <DCurrie@enl-tbay.com>
To: "Doug.Yurick@pc.gc.ca" <Doug.Yurick@pc.gc.ca>
Date: 18/11/2011 11:04 AM
Subject: Red Rock wastewater treatment plant

Hi Doug,

We have been reviewing our past correspondence with Gail Jackson on the project.

We understand from discussions with Gail that an area for a proposed outfall would be excluded from the NMCA (see email dated Aug 24, 2010).
The attached drawing was provided to Gail in September 2010 showing the general location of a proposed outfall from the existing wastewater treatment plant site. Upon further review of the drawing you sent us, it doesn't appear that the attached information sent to Gail was considered when the NMCA boundary was set.

Unfortunately, with either of the potential options where a lake outfall is required (i.e. at the mill lagoon or the existing treatment plant site) we will not know the exact location and length of the outfall until detailed topographic survey and soundings are completed during the detailed design stage.

On the chance that the location for an outfall pipe and the NMCA boundary are in conflict, what action would be required to amend the NMCA boundary?
We would like to be able to discuss this in more detail in our report to the Township.

Thanks,

Dan

Dan Currie, C.E.T.
Engineering Northwest Ltd.
301-200 S. Syndicate Ave.
Thunder Bay, ON
P7E 1C9
Phone: 807-623-3449 ext. 251
Fax: 807-623-5925
Email: dcurrie@enl-tbay.com

Information from ESET NOD32 Antivirus, version of virus signature database 6695 (20111208)

The message was checked by ESET NOD32 Antivirus.

http://www.eset.com

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http://www.eset.com

ENL

Engineering Northwest Ltd.

Consulting Engineers

TELEPHONE MESSAGE ☐ MEMO TO FILE ☐

Recorded by: D Bowler

Talked with: Joe Daze

Company: MNO

Telephone: 626 - 9876 ext. 227

Date: Dec. 12, 2011

P.N.: 09080

Project: Red Rock WWTP Class EA

Circulate:

Message:

1) He has received the information we sent out Dec. 1 after receipt of his letter

2) He has not received the information yet

3) He is not sure what the Consultation Committee will want to do - they haven't made a decision yet if they want to consult

4) Average cost of consultation is $3,000 - could be less if meetings are scheduled to complete more than 1 project at a time

5) He will be talking to the Consultation Committee this week, + will advise once a decision is made.

I advised we would like to know as soon as a decision is made in order to keep the project moving + to bring it closer to being finalized - wrapped up. Still addressing other comments rec'd

Kathy Bemben

From: Joe Daze [JoeD@metisnation.org]
Sent: December 13, 2011 11:17 AM
To: Kathy Bemben
Subject: RE: Red Rock WWTP Class EA

Hi Kathy,

I will advise you on the committee's decision in regards to this project as soon as possible.

Kind Regards,

JoeDaze
Coordinator of Lands, Resources and Consultations
Métis Nation of Ontario

231 Brodie St. S
Thunder Bay, ON
P7E 1C1
Office: (807) 626-9876 Ext. 227
Fax: (807) 626-9315
Cell: (807) 621-2346
JoeD@metisnation.org

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From: Kathy Bemben [mailto:KBemben@enl-tbay.com]
Sent: December 13, 2011 11:16 AM
To: Joe Daze
Cc: Kal Pristanski; Jose Casal
Subject: Red Rock WWTP Class EA

Good Morning Joe,

To confirm our telephone conversation yesterday, you advised you have received the information we sent to you dated Dec.1, 2011, but have not had an opportunity to review it yet.

You also advised that the Consultation Committee has not yet made a decision if they want to consult on this project as of yet.

Once you have spoken to the Consultation Committee and a decision has been made as regarding consultation can you please advise me?

Thank you,

Regards

Kathy Bemben, P. Eng., FEC

ENL Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com

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Dan Currie

From: Dan Currie
Sent: December 13, 2011 15:34
To: 'Doug.Yurick@pc.gc.ca'
Cc: Kathy Bemben (kbemben@enl-tbay.com); 'Kal Pristanski'; 'Jose Casal'
Subject: RE: Red Rock wastewater treatment plant

Hi Doug,

I did receive your message, just got side-tracked with other things.

From your voicemail I understand that an interim reply was sent to the Township generally indicating that the NMCA boundary has not been legislated yet and the Township's concerns regarding the boundary are under review. I note that a formal response from Parks Canada is forthcoming.

We are meeting with council on January 11th.

Regards,

Dan

-----Original Message-----
From: Doug.Yurick@pc.gc.ca [mailto:Doug.Yurick@pc.gc.ca]
Sent: December 13, 2011 14:39
To: Dan Currie
Subject: RE: Red Rock wastewater treatment plant

Hi Dan:

I left a voice response with you just after 1:00 ... please advise when your report is due to be submitted.

Thanks,
Doug

From: Dan Currie <DCurrie@enl-tbay.com>
To: "Doug.Yurick@pc.gc.ca" <Doug.Yurick@pc.gc.ca>:
Date: 13/12/2011 12:55 PM
Subject: RE: Red Rock wastewater treatment plant

Hi Doug,

I think the last time we spoke you indicated you were going to reply to Kal's message below.

I just wanted to follow up to see if you have replied, and if so, can you pass it on to me for the purposes of report?
Thanks,

Kathy Bemben

From: Joe Daze [JoeD@metisnation.org]
Sent: December 14, 2011 10:27 AM
To: Kathy Bemben
Subject: RE: Red Rock WWTP Class EA
Attachments: Metis Nation of Ontario Duty to Consult Guide.pdf

Importance: High

Hi Kathy,

The Lakehead/Nipigon/Michipicoten Region 2 Consultation Committee is requesting a meeting on your project. I have attached some consultation information for you to help as a guide. I look forward to some possible dates that you could provide to conduct a meeting in Thunder Bay. As discussed in a previous phone call, our committee would require capacity to conduct this meeting and perhaps I could forward you a budget for this purpose. I look forward to your response.

http://www.metisnation.org/programs/lands,-resources--consultations.aspx

Kind Regards,

JoeDaze
Coordinator of Lands, Resources and Consultations
Métis Nation of Ontario

231 Brodie St. S
Thunder Bay, ON
P7E 1C1
Office: (807) 626-9876 Ext. 227
Fax: (807) 626-9315
Cell: (807) 621-2346
JoeD@metisnation.org

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Sent: December 13, 2011 11:16 AM
To: Joe Daze
Cc: Kal Pristanski; Jose Casal
Subject: Red Rock WWTP Class EA

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Thank you,

Regards

Kathy Bemben, P. Eng., FEC

ENL Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com

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REGIONAL CONSULTATION PROTOCOLS

THE MÉTIS NATION OF ONTARIO

Established in 1993 by the will of Ontario Métis, the Métis Nation of Ontario (MNO) represents the collective aspirations, rights and interests of Métis people and communities throughout Ontario. The MNO has a democratic, province-wide governance structure which ensures Métis people are represented at the local, regional and provincial levels.

MÉTIS CITIZENSHIP IN ONTARIO

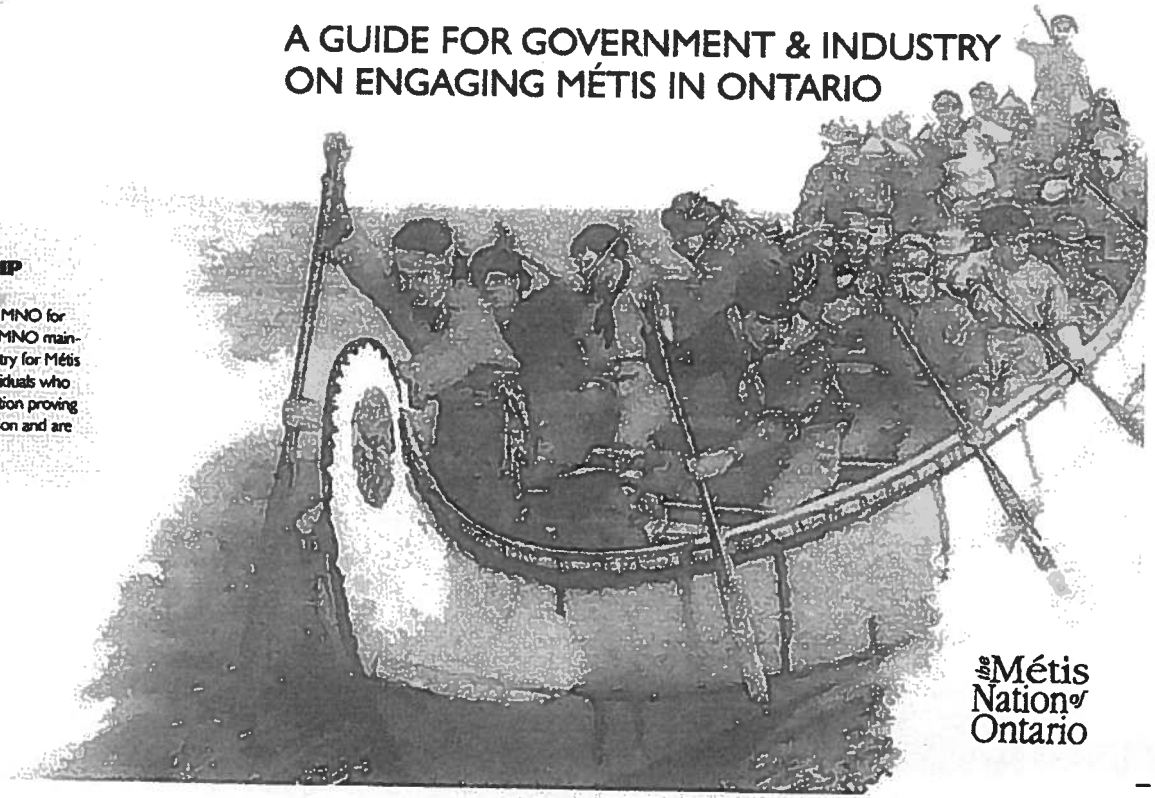
Métis in Ontario make application to the MNO for citizenship within the Métis Nation. The MNO maintains the only recognized provincial Registry for Métis in Ontario. Citizenship is granted to individuals who self-identify as Métis, provide documentation proving an ancestral connection to the Métis Nation and are accepted by the MNO.

CONTACT

www.metisnation.org/consultations
Métis Nation of Ontario
500 Old St. Patrick St, Unit D
Ottawa, ON K1N 9G4
Tel: 613-798-1488 or 1-800-263-4889 (toll free)

MÉTIS CONSULTATION & ACCOMMODATION

A GUIDE FOR GOVERNMENT & INDUSTRY ON ENGAGING MÉTIS IN ONTARIO



the Métis Nation of Ontario

DUTY OF THE CROWN & ONTARIO MÉTIS

Based on credible Métis rights assertions and claims throughout Ontario, the provincial government has accommodated Métis rights on a regional basis, within Métis harvesting territories identified by the Métis Nation of Ontario (MNO). This accommodation has been held to be legally enforceable by the Ontario Court of Justice in 2007 in *R. v. Laumn*.

In Métis traditional harvesting territories, the Crown's duty to consult is triggered when it plans, undertakes or authorizes a policy, project or development that has the potential to affect the rights, interests or way of life of the regional Métis communities that rely on these territories. Industry may undertake procedural aspects of the Crown's duty, but the duty itself remains solely with the Crown.

The MNO, in partnership with its Community Councils, has established a process to achieve effective consultation with Métis in Ontario. This process requires government or industry to provide written notice to the potentially affected regional rights-bearing Métis communities. Through established Regional Consultation Protocols, the MNO and its Community Councils will undertake an assessment of all consultation requests. Following this, a response from the regional rights-bearing Métis community will be provided, identifying whether consultation is required, and, if so, how consultation should take place. It is at this point that a formal consultation process would begin.

WHO THE MÉTIS ARE

The Métis are a distinct Aboriginal people with a unique history, culture, language and territory that includes the waterways of Ontario, surrounds the Great Lakes and spans what was known as the historic Northwest.

The Métis Nation is comprised of descendants of people born of relations between Indian women and European men. The initial offspring of these unions were of mixed ancestry. The genesis of a new Aboriginal people called the Métis resulted from the subsequent intermarriage of these mixed ancestry individuals.

Distinct Métis settlements emerged as an outgrowth of the fur trade, along freighting waterways and watersheds. In Ontario, these settlements were part of larger regional communities, interconnected by the highly mobile lifestyle of the Métis, the fur trade network, seasonal rounds, extensive kinship connections and a shared collective history and identity.

DUTY OF THE CROWN TO CONSULT & ACCOMMODATE

In 2004, in the Haida and Taku cases, the Supreme Court of Canada set out a new legal framework – the Crown's duty to consult and accommodate. This duty flows from the honour of the Crown and s. 35 of the *Constitution Act, 1982*. This new duty requires governments to consult Indian, Inuit and Métis peoples and accommodate their interests whenever a Crown actor considers conduct that might adversely affect Aboriginal rights or interests.

The duty applies when the Crown has real or constructive knowledge of the potential existence of Aboriginal rights or title that may be at risk from a course of action being contemplated by a Crown. The duty demands that all governments work with Aboriginal peoples to understand their interests and concerns prior to authorizing or proceeding with a plan, policy, development or activity that has the potential to affect Aboriginal rights. The purpose of the duty is achieved when government addresses, modifies or reconciles its actions with Aboriginal interests in a real and substantive way.

Overall, the duty is designed to promote the transformation of the existing relationship between the Crown and Indian, Inuit and Métis peoples to a new relationship based on consultation, accommodation, just settlements and reconciliation.

TRIGGER FOR CONSULTATION

Government or a proponent identifies a plan, policy or project with the potential to impact Métis rights, interests or way of life in an area where a Regional Métis Consultation Protocol is in place. See map on next page.

NOTICE TO MÉTIS

Notice from government or industry proponent sent to the Métis Consultation Unit c/o the MNO Head Office. Notice includes sufficient detail about proposed plan, policy or project for a Regional Métis Consultation Committee to assess and determine consultation requirements.

ASSESSMENT BY MÉTIS

The Regional Métis Consultation Committee, along with the MNO Natural Resources, Environment and Community Relations Branch, work together to assess the notice provided and to determine level of consultation required.

MÉTIS RESPONSE

The MNO's Natural Resources, Environment and Community Relations Branch, on behalf of the Regional Métis Consultation Committee, provides a written response to the government or proponent which outlines conclusion on the initial assessment.

This written response identifies whether additional information is needed, whether consultation is required, whether consultation will take place at the local or regional level and the Regional Métis Consultation Committee's proposed next steps in order to begin formal consultations (i.e. arrange face-to-face meeting, capacity funding, etc.).

CONSULTATION BEGINS

Once the next steps identified in the Métis Regional Consultation Committee's response are addressed, formal consultation with the Métis community will begin.

Notice, assessment and the Métis response do not constitute consultation. They are preliminary steps designed to get to a fair, objective and transparent consultation process with the potentially affected rights-bearing Métis community.

Kathy Bemben

From: Johnson, Ashley (MAA) [Ashley.Johnson@ontario.ca]
Sent: December 21, 2011 11:07 AM
To: Kathy Bemben
Subject: RE: Red Rock WWTP Class EA

Thank you Kathy. Based on the list you provided, I have no further recommendations at this time.

From: Kathy Bemben [mailto:KBemben@enl-tbay.com]
Sent: December 21, 2011 9:07 AM
To: Johnson, Ashley (MAA)
Subject: Red Rock WWTP Class EA

Hi Ashley,

Further to our conversation yesterday, please see the listing below of the First Nations, Métis and Aboriginal groups contacted during the Class EA. This list is from the recent Public Consultation Centre that was held Oct. 26, 2011.

If you have any questions or if there are other groups that you think should be added to the list please let me know.

Don Boswell, Senior Claims Analyst Aboriginal Affairs and Northern Development Research 10 Wellington St. Gatineau, QC K1A 0H4
Mr. Max Johnson A/Director, Funding Services – North Aboriginal Affairs and Northern Development 100 Anemki Drive, Suite 101 Thunder Bay, ON P7J 1A5
Marc-Andre Millaire, Litigation Team Leader, Ontario/Nunavut Team Aboriginal Affairs and Northern Development LITIGATION MANAGEMENT AND RESOLUTION BRANCH 10 Wellington St. Gatineau, QC K1A 0H4
Ontario Secretariat for Aboriginal Affairs 720 Bay Street 4th Floor Toronto, ON M5G 2K1

Métis Consultation Unit Métis Nation of Ontario Head Office 500 Old St. Patrick Street, Unit D Ottawa, ON K1N 9G4
Cameron Burgess Chair - Consultation Committee Thunder Bay and Region Métis Nation of Ontario 841 Brodie St. North Thunder Bay, ON P7C 3V1
Melanie Paradis Director - LRC Branch - Métis Nation of Ontario 75 Sherbourne St. Suite 222 Toronto, ON M5A 2P9
Anishinabek Nation Nipissing First Nation P.O. Box 711 North Bay ON P1B 8J8
Chief Arlene Wawia Red Rock Indian Band P.O. Box 1030, Nipigon, ON P0T 2J0
Red Sky Métis Independent Nation 406 East Victoria Avenue Thunder Bay, ON P7C 1A5

Kathy Bemben, P. Eng., FEC

ENL Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com

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ENL

Engineering Northwest Ltd.

Consulting Engineers

January 5, 2012

PN 09080 - M

Township of Red Rock

Wastewater Treatment Plant Upgrades Class Environmental Assessment

MINUTES FOR MÉTIS CONSULTATION MEETING #1

Present: Joe Daze – Métis Nation of Ontario (MNO)
Trent Desaulniers – Métis Nation of Ontario (MNO)
Ken Simard – Métis Nation of Ontario (MNO)
Wendy Landry – Métis Nation of Ontario (MNO)
Robert Graham - Métis Nation of Ontario (MNO)
Janine Landry - Métis Nation of Ontario (MNO)
Joanne Hamelin - Métis Nation of Ontario (MNO)
Paul Jordan - MOE
Kal Pristanski - Township of Red Rock
Jose Casal, P. Eng. – OCWA (via teleconference)
Kathy Bemben, P. Eng. - Engineering Northwest Ltd. (ENL)
Dan Currie C.E.T. - Engineering Northwest Ltd. (ENL)

Time/Date: Thursday January 5, 2012, 10:00 am
Location: Engineering Northwest Ltd. Boardroom

The purpose of this meeting was to provide the MNO with a description of the proposed project and discuss any questions or concerns. The following is a description of the discussions:

1. Introductions by all parties were made.

2. Joe Daze provided an introduction to the Métis Nation and presented a PowerPoint slide, Métis 101.

3. The project information as presented at PCC #2 was presented and the following items were discussed:

    a. **Re-use of existing mill lagoon** – At the first Public Consultation Centre, re-use of the existing mill lagoon was not carried forward as a viable option as the Township did not want to limit the possibility of the mill re-opening. Subsequently, circumstances have changed (equipment has been removed from site limiting the potential for the facility to be used in its former capacity) that have allowed the mill lagoon to be reconsidered as a potential option.

    The MOE indicated that the former mill owner (Cascades) has money in trust to complete remediation work at the mill site. This would include the closure of the existing wood waste dump site. The leachate from the dump site would continue to be pumped to the existing lagoon for a period of time. It was noted that the closure of

the dump site will occur even if the Township does not proceed with re-using the mill lagoon.

b. **Population** – The slide presented at PCC #2 showing the population projection contained an error. The population in 2031 should read 1185, not 1,578. This assumes a 1% growth rate. It was noted that there is little room for additional growth within the serviced area of the Township.

c. **Sewage Treatment** – The existing sewage treatment plant provides only primary treatment and disinfection, while secondary treatment and disinfection is required in Ontario is also a requirement to de-list Nipigon Bay as an Area of Concern.

The Township is currently considering two options to provide secondary treatment, re-use of the existing mill lagoon as an aerated lagoon with discharge to Lake Superior, and constructing an RBC plant (similar to Nipigon) on the existing treatment plant site.

The MNO suggested that tertiary treatment should be employed, reasoning that the standards for treatment are becoming more stringent and technology presently exists to provide a higher level of treatment. The EVC© process was a suggested alternative. It could not be confirmed if the EVC© process provides tertiary treatment.

It was noted that tertiary treatment is not required due to the nature of the Red Rock wastewater.

4. The MOE confirmed that there is no requirement for anything other than secondary treatment for the Red Rock WWTP upgrades. The MOE also confirmed that there is no risk to human health or aquatic life with secondary treatment. Secondary treatment is designed to protect human and environmental health and satisfies the provincial, federal and Area of Concern de-listing requirements.

5. A date has not been set for the completion of the ESR. The completion is pending completion of consultation with the MNO.

6. MNO to provide a list of any additional questions, comments or concerns to ENL and the Township by Monday January 9, 2012.

Please notify the undersigned of any errors or omissions.

Minutes prepared by:
ENGINEERING NORTHWEST LTD.

Dan Currie, C.E.T.

Distribution: All present
Mike Gundry - AECOM
ENL File

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the Métis Nation of Ontario

January 9, 2012

Kal Pristanski, Chief Administration Officer/Clerk/Treasurer
Gary Nelson, Mayor, Township of Red Rock
Sara Park. Councillor, Township of Red Rock
Darquise Robinson, Councillor, Township of Red Rock
Judith Sobush, Councillor, Township of Red Rock
Steve Carruthers, Councillor, Township of Red Rock
P.O. Box 447
Red Rock, ON
P0T 2P0

Kathy Bemben
Senior Engineer
Engineering Northwest Ltd.
200 S.Syndicate Ave.
Thunder Bay, ON
P7E 1C9

Dear Kal Pristanski, Kathy Bemben and Red Rock Council

Subject: Township of Red Rock Waste Water Treatment Plant Project Meeting with the Lakehead /Nipigon /Michipicoten Traditional Territory Consultation Committee

We write in response to the above-described initiative (the "Project"). As you know, the Crown's duty to consult and accommodate Aboriginal title and rights, in keeping with the honour of the Crown and the promise of s. 35 of the *Constitution Act, 1982,* applies to the three Aboriginal peoples of Canada, one of those being the Métis Nation. The duty requires the Crown, or a proponent acting on behalf of the Crown, to meaningfully consult Aboriginal peoples and accommodate their interests if the project or development might adversely affect Aboriginal rights, interests or way of life.

The Métis Nation has Aboriginal rights in the lands, waters and natural resources within the area of the Township of Red Rock Waste Water Treatment Plant Upgrade therefore, it is our position that you are required to meaningfully consult with our rights-bearing Métis community on this Project.

As a result of our recent January 5th, 2012 initial information exchange, we assert that our rights may be impacted. Our community depends upon the lands, waters, and resources of their traditional territories for physical and cultural well-being. We realize that our community's health is tied to the health of the environment, including, and especially, the health of the land and water ecosystems. Métis harvesters in the region use the lands and waters as an important source of sustenance, which

are an integrated component of these ecosystems. As you know, the management of the waste water treatment processes has a direct impact on the biotic and abiotic components, as well as their interactions, that compose the ecosystems in these regions. As a result, management of waste water treatment processes in these traditional territories has the potential for profound impacts on Métis Aboriginal rights, interests and way of life.

The Region 2 Lakehead/Nipigon/Michipicoten Traditional Territory Consultation Committee believes in an environmentally friendly waste water treatment process that goes beyond secondary treatment parameters such as seen in other communities in Ontario. The Committee recommends that the township of Red Rock considers all new innovative technologies that may treat waste water beyond secondary treatment parameters. The committee continues to support the Great Lakes Water Quality Agreement's statement of zero discharge to the watershed especially as the Nipigon Bay area is noted as an Area of Concern. The Consultation Committee would like this area to progress to become an Area of Recovery. The committee respectfully requests to participate in a deputation to the township of Red Rock in regards to the waste water treatment upgrade at your earliest convenience. It is important to note that the consultation process is ongoing and the committee requests notifications of any projects updates.

If you have any questions regarding this letter, please contact the staff support person for this file:

Joe Daze (807)-626-9876 ext 227 or joed@metisnation.org

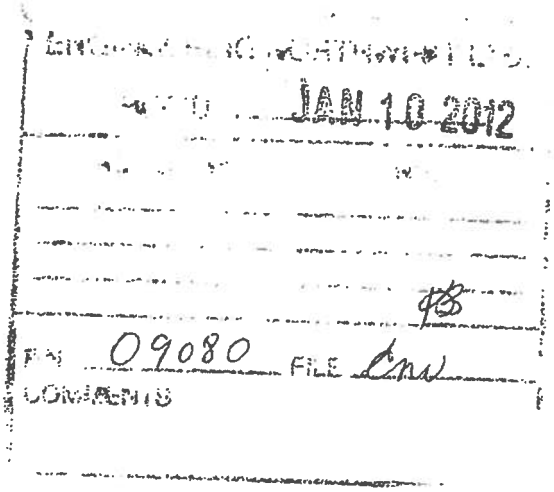
Thank you for contacting us about your plans.

Yours very truly,

Wendy Landry

Wendy Landry, Acting Chairperson, Lakehead/Nipigon/Michipicoten Consultation Committee

c.c. Melanie Paradis, Director, Lands, Resources and Consultation
Paul Jordan, Ministry of the Environment



file 09080 dw

Kathy Bemben

From: Kathy Bemben
Sent: January 17, 2012 11:47 AM
To: 'Joe Daze'
Cc: 'Kal Pristanski'; Dan Currie; 'Jose Casal'; 'Gundry, Michael'
Subject: Red Rock WWTP Class EA - Meeting with Council

Hi Joe,

The Township of Red Rock Council has reviewed the Métis Nation of Ontario's (MNO) request for a Deputation to Council, and have advised that they will meet with the MNO at 1:30pm on Thursday February 2nd, 2012 in the Municipal Office, 42 Salls Street, Red Rock.

Can you please confirm that the MNO will attend at this date and time?

I will be away from the office Thursday Jan. 19 to Monday Feb. 13, so for any further coordination and questions etc. can you please contact Dan Currie of our office, and he will be able to assist you.

Regards

Kathy Bemben, P. Eng., FEC

ENL Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com

NORTHERN WATERTEK CORPORATION
115 Deerfox Drive,
OTTAWA, ON., K2J 4W4,
613-255 2890 www.watertek.org

Mayor Gary Nelson, and Council
Township of Red Rock
Red Rock, Ontario

Re Waste Water Treatment Plant Upgrade

February 5th,2012.

Regarding the Red Rock Waste Water Treatment Plant upgrade, have you accepted the Environmental Study Report(ESR) from ENL?

My intention, as detailed to you previously, was to build for you, a show piece system, as the location on the mill site represents some unique and innovative concepts that can contribute to improving the standard of Waste Water Treatment everywhere.

We propose a partnership with Red Rock to ensure now and in the future that this system is both affordable and effective, environmentally. I should like to discuss this with you directly and soon, as we have been giving much thought to this.

My company and I have enjoyed a long and successful relationship with Westport, Ontario for over 15 years. This has been possible because of our desire to solve problems and achieve real results for our municipal partners.

I trust you have all seen the reports on Red Rock that we have submitted to date. I am appealing to you for a meeting in Red Rock, sooner than later to answer any and all questions you may have.

I am available at your earliest convenience,

Sincerely:
NORTHERN WATERTEK CORPORATION,

Jeffrey A. White P.Eng.
President and CEO

cc: Kal Pristanski
Councillor SteveCarruthers

February 7, 2012

Mr. Jeffrey White,
Northern Watertec Corp.,
115 Deerfox Drive,
Ottawa, ON
K2J 4W4

Dear Mr. White:

Council reviewed your letter dated February 5, 2012 at their regular meeting of Council on February 6, 2012. Council is proceeding with the Environmental Study Report and will have a Final Draft shortly.

As outlined at the Open House that was held on October 26th, 2011 the EVC proposal is not the option that is being recommended by the consultants. Council concurs with their recommendation.

As such we feel any further meetings would not be productive.

Yours truly,

Gary Nelson, Mayor
Township of Red Rock

cc. Kathy Bemben, ENL
Jose Casal, OCWA

BOX 447, 42 SALLS ST., RED ROCK, ONTARIO P0T2P0
PHONE: (807) 886-2245; FAX (807) 886-2793
EMAIL: cao@shawbiz.ca

ENL

Engineering Northwest Ltd.

Consulting Engineers

February 9, 2012

PN 09080 - M

Township of Red Rock

Wastewater Treatment Plant Upgrades Class Environmental Assessment

MÉTIS CONSULTATION MEETING #2 - SUMMARY

Present:

Joe Daze – Métis Nation of Ontario (MNO)
Trent Desaulniers – Métis Nation of Ontario (MNO)
Ken Simard – Métis Nation of Ontario (MNO)
Wendy Landry – Métis Nation of Ontario (MNO)
Jo-Anne Hamelin – Métis Nation of Ontario (MNO)
Gary Nelson - Township of Red Rock
Kal Pristanski - Township of Red Rock
Dave Pettersen - Township of Red Rock
Judith Sobush - Township of Red Rock
Steve Carruthers - Township of Red Rock
Jose Casal – Ontario Clean Water Agency (OCWA)
Mike Gundry - AECOM
Dan Currie - Engineering Northwest Ltd. (ENL)

Time/Date: Thursday February 2, 2012, 1:00 pm
Location: Red Rock Town Office

This meeting was called at the request of the Métis Nation of Ontario (MNO) for deputation with the Township of Red Rock Council. The following is a description of the discussions:

1. Introductions by all parties were made.

2. The MNO expressed their concern over not being able to meet with Red Rock Council during the initial meeting held January 5, 2012 and therefore requested this deputation with Council. It was noted that the January 5th meeting was a good introductory meeting for the exchange of information from all parties.

3. MNO indicated that they are advocating for cleaner water and would like to see the Township achieve a higher level of sewage treatment from secondary to tertiary; however, they do not want to impose hardship on the Township with respect to higher operating costs.

4. MNO will formally respond to the Township regarding their concerns of the project.

Please notify the undersigned of any errors or omissions.

Minutes prepared by:
ENGINEERING NORTHWEST LTD.

Dan Currie, C.E.T.

Distribution: All present
Kathy Bemben
ENL File

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Dan Currie

From: Doug.Yurick@pc.gc.ca
Sent: February 29, 2012 10:10
To: Dan Currie
Cc: ray.boudreau@pc.gc.ca
Subject: Re: Red Rock wastewater treatment plant

Hi Dan:

NMCA manager Ray Boudreau has twice discussed the outflow pipe matter with Kal Pristanski, most recently in early February I understand. On the basis of those discussions, we understand that the town council will make a final decision from among two options when it meets in early March and then advise Parks Canada of its decision. I understand that both options would require a new outflow corridor.

Ray's advice to me has been that with his discussions with Kal having taken place, a letter is not required.

Doug

----- Original Message -----
From: Dan Currie [DCurrie@enl-tbay.com]
Sent: 02/28/2012 09:56 PM GMT
To: Doug Yurick
Cc: Kal Pristanski <cao@shawbiz.ca>
Subject: RE: Red Rock wastewater treatment plant

Hi Doug,

We are in the process of preparing the draft ESR for presentation to council.

From our previous discussions I understand that a formal response from Parks Canada was forthcoming. Based on my understanding I don't think the Town has received the response.

It would be beneficial to include this information in the ESR. Do you anticipate the response in the near future?

Thanks,

Dan

March 1, 2012

Wendy Landry, Acting Chairperson,
Lakehead/Nipigon/Michipicoten Consultation Committee,
Métis Nation of Ontario,
231 Brodie St. S.,
Thunder Bay, ON
P7E 1C1

Dear Ms. Landry:

Council has reviewed the letter dated February 13, 2012 and continues to be perplexed by your organizations objections to Red Rock Council's direction to pursue a secondary treatment facility in Red Rock especially when it meets the requirements of the Great Lakes Water Quality Agreement and ***will*** remove Nipigon Bay as an 'Area of Concern' and the result ***will*** designate Nipigon Bay as an 'Area of Recovery'.

Red Rock Council has gone above and beyond the requirements set out by the Provincial Government to upgrade our primary treatment wastewater plant to a state of the art secondary treatment facility in the Township of Red Rock. Council received the first 'Draft ESR Report' in August 2010 which recommended an RBC Secondary Wastewater Treatment Facility be constructed in Red Rock. This is the same facility that was constructed in Nipigon in 2011. Council did not accept that report and directed its consultants to explore alternative options all the way up to tertiary systems. This extended the process by well over a year and their recommendations were reviewed at an open house held on October 26th, 2011 in Red Rock. This delay may well have jeopardized our funding but Council felt it was in the best interests of the citizens of Red Rock and area to proceed in such a cautious manner. Council will be meeting with the consultants on March 7th at 6:00pm in Red Rock to review the Draft ESR.

BOX 447, 42 SALLS ST., RED ROCK, ONTARIO P0T2P0
PHONE: (807) 886-2245; FAX (807) 886-2793
EMAIL: cao@shawbiz.ca

It must be pointed out that Red Rock is facing a severe budget crisis and any option that adds operational costs or exceeds government funding levels cannot be considered by Council. Due to the closure of the Norampac Mill in 2006 Red Rock has increased taxes by 10% per year for the last 5 years and will continue to do so for the foreseeable future just to meet 'current' operational costs.

With respect to meaningful consultation, your organization has met with administration and our consultants from ENL, OCWA and AECOM on January 5, 2012 and with Council and consultants on February 2nd, 2012. We will point out that a delegation request as outlined in our Procedural By-law 2012-1054 as published on our web page at www.redrocktownship.ca allows for 10 minutes for a deputation. Council dedicated an entire meeting with you rather than granting a delegation, again going well above what our policy dictates.

The reference to 'virtually eliminate' in your letter of February 13, 2012 is quite misleading when taken out of context. The wording as indicated below from Great Lakes Water Quality Agreement clearly deals with 'persistent toxic substances' which Red Rock *does not produce*.

Great Lakes Water Quality Agreement,
Article IV – Specific Objectives:

(f) *The Parties recognize that there are areas in the boundary waters of the Great Lakes System where, due to human activity, one or more of the General or Specific Objectives of the Agreement are not being met. Pending virtual elimination of the persistent toxic substances in the Great Lakes System, the Parties, in cooperation with the State and Provincial Governments and the Commission, shall identify and work toward the elimination of:*

(i) Areas of Concern pursuant to Annex 2;

(ii) Critical Pollutants pursuant to Annex 2; and

(iii) Point Source Impact Zones pursuant to Annex 2.

Further, no treatment process, even tertiary, will achieve 'zero discharge'. The treated sewage will always have to be discharged somewhere. Council has investigated claims to the contrary by some proponents but unfortunately their claims have fallen short when examined closely.

With respect to your assertion that a public apology is required for what you consider a 'blatant misrepresentation of the MNO to the public' will not be forthcoming. It is the opinion of Council that at both meetings with your representatives and your letter of February 13th, last, you clearly had and continue to have serious objections to Red Rock proceeding with a secondary wastewater facility and as such there was and is no misrepresentation on this matter.

We have requested ENL to respond to some of the technical processes involved in the secondary and tertiary processes under discussion and have appended their response.

In closing Council feels that we have addressed all of the concerns outlined in your letter of February 13th, 2012. Once again we assert that with the construction of a state of the art secondary wastewater treatment facility, Nipigon Bay will be delisted as an 'Area of Concern' and will be designated an 'Area of Recovery'. This can only benefit the citizens of Red Rock and all the users of the water that surrounds it, including the members of the Metis Nations for generations to come.

Yours truly,

Gary Nelson, Mayor
Township of Red Rock

c.c. Joe Daze, Consultation Coordinator, Metis Nations of Ontario
Jose Cassal, OCWA

Att. ENL Letter

ENL

Engineering Northwest Ltd.

Consulting Engineers

March 1, 2012

PN 09080

Township of Red Rock
P.O. Box 447
Red Rock, Ontario
P0T 2P0

Attention: Mr. Kal Pristanski, CAO

Dear Sir:

Re: **Township of Red Rock**
Wastewater Treatment System Upgrades
Class Environmental Assessment
Métis Nation of Ontario Consultation

The Métis Nation of Ontario (MNO) Lakehead/Nipigon/Michipicoten Consultation Committee had requested a meeting with respect to the above project, and accordingly a meeting was held January 5, 2012 with the MNO Committee. Following this initial meeting, MNO provided a summary of their concerns in a letter dated Jan. 9, 2012. At that time the MNO also requested participation in a deputation to the Township of Red Rock. The Township Council received the deputation from the MNO Committee on Feb. 2, 2012, and the MNO provided a further written submission dated Feb. 13, 2012.

BACKGROUND

The existing wastewater treatment plant in the Township of Red Rock was constructed in 1975 and treats wastewater to a primary standard, which generally includes removal of any settled solids and disinfection. It is also important to note that there are currently no Certificate of Approval effluent limits that are required to be met by the existing treatment plant. Any new wastewater treatment facility will be required to meet specific effluent requirements and will far exceed the level of treatment currently being provided. Secondary treatment is proposed for the project.

MNO CONCERNS

We acknowledge the concerns of the MNO and have attempted to address the concerns of a technical nature below. Excerpts from the MNO letters are shown in bold, with our comments following.

1) **January 9, 2012 - The Region 2 Lakehead/Nipigon/Michipicoten Traditional Territory Consultation Committee believes in an environmentally friendly wastewater treatment process that goes beyond secondary treatment parameters such as seen in other communities in Ontario. The Committee recommends that the Township of Red Rock consider all new innovative technologies that may treat wastewater beyond secondary treatment parameters.**

    - Treatment beyond secondary treatment is normally referred to as tertiary treatment. The implementation of tertiary treatment in Ontario is generally required in cases that have, due to pre-existing conditions of the effluent receiving water body, stricter requirements

imposed by the regulatory Agency, i.e. the Ministry of the Environment (MOE). These stricter requirements are generally related to phosphorus removal. It should be noted that the background phosphorus level in Nipigon Bay is low and therefore additional phosphorus removal is not required by the MOE for this project.

The MOE has provided the sewage effluent requirements that are required to be achieved for the Township of Red Rock's wastewater treatment facility, which is 25 mg/L Biological Oxygen Demand (BOD), 25 mg/L Total Suspended Solids (TSS), 1 mg/L phosphorus and no acute toxicity. The effluent requirements are achievable with standard secondary treatment methods, such as those currently being considered.

- Removing a greater proportion of nutrients from the sewage effluent will not result in significant environmental benefit and is not required by the MOE or as a requirement to delist Nipigon Bay as an Area of Concern.

- A tertiary filtration process such as disk filters would add approximately $500,000 to the capital cost of the aerated lagoon or RBC treatment option. There would also be an operating cost to run and maintain the filters estimated at $20,000 per year.

  Tertiary treatment may also increase the classification of the plant and require the operators to have a higher license class. A higher license class will require additional annual training to obtain and maintain the higher license class.

- One of the alternatives considered in the Class EA is to utilize the Envapocrystallization (EVC®) process, which provides land application (snow or liquid) of treated effluent. With respect to the EVC® process it is unclear if tertiary treatment would be provided. The melted snow will infiltrate into the ground and end up as ground water which will eventually flow to the lake. There will likely be some removal of contaminates due to vegetation uptake, microorganisms in the soil and filtering of the soil. Because it is a natural system it is hard to quantify and control these removals. Also, if there was an issue there is no way to recover or modify the infiltration. Given that the proposed location is in close proximity to the lake, it is possible that the nutrients and other elements present in the snowpack and liquid effluent may end up in the lake indirectly.

2) **<u>January 9, 2012</u> - The committee continues to support the Great Lakes Water Quality Agreement (GLWQA) statement of zero discharge to the watershed especially as the Nipigon Bay area is noted as an Area of Concern. The Consultation Committee would like this area to progress to become an area of recovery.**

<u>February 13, 2012</u> - The project as portrayed during the January 5, 2012 meeting will have direct and indirect impacts on the biotic and abiotic components that amass the area's ecosystems. As a result, the management of waste water treatment processes in the Traditional Territory have the potential to profoundly impact Métis Aboriginal rights, interests and way of life.

The Committee maintains the position that waste water treatment processes shall go above and beyond secondary treatment parameters by considering all new innovative technologies; a policy seen implemented by many other communities. In addition, the

Committee supports the Great Lakes Water Quality Agreement guiding principles of "virtually eliminate" and "zero discharge". These guiding principles are particularly important to the Committee as the Nipigon Bay area is noted within the Great Lakes Water Quality Agreement as an "Area of Concern". The Township of Red Rock should consider how the project will support and augment this area's progress to becoming an "Area of Recovery".

- To the best of our knowledge, the Canada - U.S. Great Lakes Water Quality Agreement of 1978 and its 1987 revisions (GLWQA) does not include a statement requiring zero discharge to the watershed. The GLWQA guiding principles of "zero discharge" and "virtual elimination" referred to are in reference to persistent toxic substances, as outlined in Annex 12 (copy attached). It should also be noted that the MOE has not identified any of these substances in the required effluent criteria for the project.

- As a direct result of the GLWQA, participating federal, state and provincial agencies, and in cooperation with the International Joint Commission (IJC), 43 polluted areas on the Great Lakes were identified as individual Areas of Concern (AOCs), for which a cleanup or Remedial Action Plan (RAP) was required. Nipigon Bay was identified as an AOC.

  The Nipigon Bay Remedial Action Plan Stage 2: Remedial Strategies for Ecosystem Restoration, dated October 1995, identified that benthic habitat and population dynamics were impaired in the vicinity of the mill and sewage treatment plant outfalls (Townships of Nipigon and Red Rock). The Remedial Action Plan (RAP) identified that, with secondary treatment in place, the impacted areas should recover relatively quickly. The implementation of secondary treatment for the Township of Red Rock sewage treatment plant is the recommended remedial strategy noted in the RAP Report as one action required to de-list Nipigon Bay as an Area of Concern.

- The Lake Superior National Marine Conservation Area (LSNMCA), prohibits discharging within the LSNMCA. Section 14 of the Canada National Marine Conservation Areas Act indicates that "No person shall dispose of any substance in waters within a marine conservation area except as authorized by a permit issued by a superintendent pursuant to this Act or, in the case of waters to which subsection 125(1) of the Canadian Environmental Protection Act, 1999 applies, authorized by section 130 of that Act or by a permit issued by the Minister of the Environment pursuant to section 127 or 128 of that Act."

  It is important to note that discharge from the proposed wastewater treatment facility will not occur within the boundary of the LSNMCA. The Township is in contact with Parks Canada with respect to the proposed outfall location in relation to the LSNMCA boundary.

SUMMARY

The provision of secondary treatment in Red Rock will meet all regulatory agency requirements including Federal and Provincial regulatory requirements. It will also satisfy the Remedial Action Plan requirement to de-list Nipigon Bay as an Area of Concern.

The proposed secondary treatment system will be designed to accommodate future treatment enhancements should they be required by Regulation changes.

Should you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours very truly,

ENGINEERING NORTHWEST LTD.

K. Bemben, P.Eng.
KB:dc
Encl.

cc. Jose Casal - OCWA
Mike Gundry - AECOM

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ANNEX 12

PERSISTENT TOXIC SUBSTANCES

1. **Definitions.** As used in this Annex:

   (a) "Persistent toxic substance" means any toxic substance with a half-life in water of greater than eight weeks;

   (b) "Half-life" means the time required for the concentration of a substance to diminish to one-half of its original value in a lake or water body;

   (c) "Early warning system" means a procedure to anticipate future environmental contaminants (i.e., substances having an adverse effect on human health or the environment) and to set priorities for environmental research, monitoring and regulatory action.

2. **General Principles.**

   (a) Regulatory strategies for controlling or preventing the input of persistent toxic substances to the Great Lakes System shall be adopted in accordance with the following principles:

      (i) The intent of programs specified in this Annex is to virtually eliminate the input of persistent toxic substances in order to protect human health and to ensure the continued health and productivity of living aquatic resources and human use thereof;

      (ii) The philosophy adopted for control of inputs of persistent toxic substances shall be zero discharge; and

      (iii) The reduction in the generation of contaminants, particularly persistent toxic substances, either through the reduction of the total volume or quantity of waste or through the reduction of the toxicity of waste, or both, shall, wherever possible, be encouraged.

   (b) The Parties shall take all reasonable and practical measures to rehabilitate those portions of the Great Lakes System adversely affected by persistent toxic substances.

3. **Programs.** The Parties in cooperation with the State and Provincial Governments, shall develop and adopt the following programs and measures for the elimination of discharges of persistent toxic substances:

   (a) Identification of raw materials, processes, products, by-products, waste sources and emissions involving persistent toxic substances, and quantitative data on the substances, together with recommendations on handling, use and disposition. Every effort shall be made to complete this inventory by January, 1982;

   (b) Establishment of close coordination between air, water and solid waste programs in order to assess the total input of toxic substances to the great Lakes System and to define comprehensive, integrated controls;

Kathy Bemben

From: Kathy Bemben
Sent: March 14, 2012 4:58 PM
To: 'Joe Daze'
Cc: 'Kal Pristanski'; 'Jose Casal'
Subject: Red Rock WWTP Class EA

Good Afternoon Joe,

The Township wanted to provide an update on the Class EA status to the MNO.

The Township Council will be adopting the Environmental Study Report (ESR) at the next Council meeting on March 19, 2012.

The ESR will then be placed on the public record for review, and we will provide you with a copy of the notice and information on where the ESR can be reviewed.

Please let me know if there are any questions or if any additional information is required.

Regards

Kathy Bemben, P. Eng., FEC

ENL Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com

the Métis Nation of Ontario

March 27th, 2012

Gary Nelson, Mayor, Township of Red Rock
Sara Park, Councilor, Township of Red Rock
Darquise Robinson, Councilor, Township of Red Rock
Judith Sobush, Councilor, Township of Red Rock
Steve Carruthers, Councilor, Township of Red Rock

Subject: Township of Red Rock Waste Water Treatment Plant Upgrade

Honourable Mayor Gary Nelson and the Red Rock Council:

We write to you as a follow-up to our letter dated February 13th, 2012.

The Métis Nation of Ontario ("MNO") represented by the Lakehead/Nipigon/Michipicoten Consultation Committee assert that the Métis community has established Aboriginal rights in the lands, waters and natural resources within the area this project is contemplated. The MNO affirm that the Crown hold's the duty to consult and accommodate Aboriginal title and rights, in keeping with the honor of the Crown and the promise of s. 35 of the *Constitution Act, 1982* which applies to the three Aboriginal peoples of Canada, one of those being the Métis Nation. The duty requires the Crown, or a proponent acting on behalf of the Crown, to meaningfully consult Aboriginal peoples and accommodate their interests if the project or development might adversely affect Aboriginal rights, interests or way of life.

The MNO acknowledges that the proposed project meets the basic requirements of all involved. However, we maintain the position that the Township of Red Rock should advocate for an optimal level of zero discharge. As stated in our meeting held on February 2, 2012, the MNO has no intention of placing hardship on the Municipality and we understand that the final decision lies with the Municipality. The committee believes that the water resources that the Creator has given us requires the best standard of care for our future families.

In regards to the news article written in the Nipigon-Red Rock Gazette, Mr. Pristanski was never given permission to speak on behalf of the MNO nor should have stated our position after a simple information exchange meeting. At the time when the article was published the MNO had yet to meet with council and formally submit a response to the Municipality stating its position. As noted above, the MNO is not objecting to the project, rather we are recommending to council to consider a water treatment process that will result in a cleaner discharge. It is unfortunate and unintended by the MNO to have the consultation on this project take such a negative spin. We are perplexed by the need of the CAO to inform the media of the MNO's position via a personal article to the public and we maintain

the Métis Nation of Ontario

that a letter of apology to the MNO be extended. On a personal note, I am disheartened by the lack of respect given to this process and to the MNO.

I hope that going forward we have the opportunity to present the MNO 101 to the full council, and to mend this relationship to a point of understanding. In closing, good luck with your project, and certification processes, and in the future we hope that the consultation process is given full respect and not left to the discretion and opinion of one individual.

Should you have any questions regarding this letter, please do not hesitate to contact the MNO staff support person for this file, Consultation Coordinator, Joe Daze at (807)-626-9876 ext 227 or joed@metisnation.org. Good luck with your project and certification process.

Respectfully,

_____

Wendy Landry
Acting Chairperson
Lakehead/Nipigon/Michipicoten Consultation Committee
Métis Nation of Ontario

c.c. Gary Lipinski, President, Métis Nation of Ontario

Paul Jordan, Ministry of the Environment

Melanie Paradis, Director, Lands, Resources and Consultation

Kal Pristanski, Chief Administration Officer/Clerk/Treasurer

Kathy Bemben, Senior Engineer, Engineering Northwest Ltd.

file 09080 Ow.

Kathy Bemben

From: Kathy Bemben
Sent: March 28, 2012 11:04 AM
To: 'McChristie, Michelle (ENE)'
Cc: Taillon,Kate [Ontario]
Subject: RE: Red Rock ESR

Hi Michelle,

The info. has now been uploaded to the Town's website, so if you go to their main page it gives directions to the ESR. I just tried it and it works fine.

If you have any trouble or if you need any further info please let me know.

Regards

Kathy Bemben, P. Eng., FEC

ENL Engineering Northwest Ltd.

Suite 301, 200 S. Syndicate Ave.
Thunder Bay, Ont.
P7E 1C9
ph: 807-623-3449 Ext. 225
fax: 807-623-5925
email: kbemben@enl-tbay.com

From: McChristie, Michelle (ENE) [mailto:Michelle.McChristie@ontario.ca]
Sent: Wednesday, March 28, 2012 10:39 AM
To: Kathy Bemben
Cc: Taillon,Kate [Ontario]
Subject: Red Rock ESR

Hi Kathy,

I received the notice of completion of Red Rock's ESR, but cannot find the report on the Town's website.
Is it possible for you to email me a copy? I would like to share the report with my colleague Kate Taillon at Environment Canada as well.
Thanks!

Michelle

Michelle McChristie
Great Lakes Advisor
Ministry of the Environment
435 James Street South, Suite 331
Thunder Bay, ON P7E 6S7
(807) 475-1693

April 29th, 2012

I have questions about this whole process - why there was no citizen participation at the meeting of December 7, 2011 where the environmental plan was adopted? I was the only public attendee. Why was this meeting at 6:00 pm and not on our regular council night? Why was this meeting not advertised in a fashion that people in our town are accustomed to? Every garage and bake sale is advertised by posting a notice on some bulletin board in town. Why does the town administration continue its obviously ineffective method of informing its citizens of important meetings?

Also I question administration's actions in refusing to give me a copy of the waste water treatment plan. Even the Freedom of Information request could not pry one out of the administration's hands. Some people in this town don't use computers. As to the plan itself, what am I actually being asked to comment on? At the last meeting I attended, information released there seemed to contradict the handout the citizens received.

I have some issues here. I am being asked to comment on a multimillion dollar construction project in planning for ten years. However, the planners involved don't seem to know where it is being built, or even what the project will look like when it is finished. Why will there be no open meeting? What possible reason can there be to not inform the citizens of this community in this major undertaking?

The cleanup costs for this mill site are unknown to me. The Thunder Bay paper has printed cleanup costs for the Terrace Bay and Marathon mill sites. Why would our town want to acquire this mill site and possible cleanup costs of millions of dollars? Whatever system will be built, I am astounded by the weeping tile water and even eaves trough water entering the system. How much extra cost is added to whichever system is chosen to handle all these peak flows? What percentage of total capital costs will be paid by the 20% of the township residents now on their own septic fields?

I did have the privilege of hearing one presentation on Mr. Muloin's and Mr. White's spray system. Some of the information he presented was closed to the public. I think their system proposal has the greatest return potential for our town. They would try to build a showpiece system to sell globally. The town could potentially benefit from future sales, good training, and construction of the storage building, etc.

I believe they were the low bidder until extra piping costs were added. Would this increase in pipe diameter be necessary if all the extra flows were not present? I would prefer the site chosen to be south of town, where the water runoff will have less impact on our water intake.

At the meeting of December 7, 2011 the unanswered question posed was: "How long does it take to build a sewage treatment plant anyway?" Nobody answered. Also it is doubtful to me that the town's citizens understand the current funding commitments. I'm also doubtful the targeted completion date can be met.

Sincerely,

Red Rock Resident #1

GOOD AFTERNOON MS Beecken

SORRY FOR THE SHORT NOTICE I NEVER HAD A COPY OF REPORT IN MY HANDS TILL TUESDAY.

JUST A FEW QUESTIONS

① HOW ~~MUCH~~ MUCH OR EXCESS INFILTRATION & INFLOW CAN BE STOPPED WITHOUT RESTRICTING DRAINING TILE WATER AND EAVESTROUGH WATER FROM ENTERING THE SYSTEM.?

② WOULD THE SMALL OUTFALL PIPE THROUGH THE MILL PROPERTY BE A PROBLEM IF THERE WERE NO EXCESS FLOWS?

(3) ARE THE INCRRASED COST FOR MR WOLFE'S PIPELINE A RESULT OF EXCESS FLOWS?

(4) COULD YOU SPECULATE WHAT CAUSED THE BIG SPIKE IN TREATED WATER USE IN 2008?

(5) ~~HOW~~ WHY WERE NO ~~[redacted]~~ BORE HOLES DRILLED ON MILL PROPERTY? OR AM I MISTAKEN ON THIS?

(6) HOW MANY COMMUNITIES ARE YOU AWARE OF THAT ~~THE~~ ALLOW RAINWATER IN THE SANITARY SEWERS?

I THOUGHT YOUR REPORT WAS VERY THOROUGH AND HELPFUL. HOWEVER ALL THE PHOTOGRAPHS OF THE FACILITY ARE ABSOLUTELY USELESS IN THE PHOTOCOPY I HAVE, AS ARE THE MAPS (WAY TOO SMALL OR SCALE)

THANKS AGAIN

I KNOW ITS A LOT TO ASK FOR REALLY TODAY, BUT I WOULD APPRECIATE EVEN APPROXIMATE ANSWERS.

MY SWEET HEARTS

E MAIL (PLEASE REPLY TO)

email address

PS. AS WELL AS TERRIBLE PENMANSHIP SKILLS I'M BASICALLY COMPUTER ILLITERATE TOO !!!

Thanks AGAIN

Red Rock Resident #1

Ministry of the Environment
Northern Region
435 James Street South
Suite 331
Thunder Bay, ON P7E 6S7

Ministère de l'Environnement
Région du Nord
435 rue James sud
Bureau 331
Thunder Bay, ON P7E 6S7

Ontario

Fax: (807) 475-1754
Direct Line: (807) 475-1728

April 30, 2012

Township of Red Rock
Municipal Office
P. O. Box 447
Red Rock, ON
P0T 2P0
Attn: Mr. Kal Pristanski, CAO

Dear Mr. Pristanski:

Re: **Red Rock Wastewater Treatment Plant Upgrade, Municipal Class Environmental Assessment, Schedule "C", Notice of Completion of Environmental Study Report**

The Ministry of the Environment, Northern Region has reviewed the *"Township of Red Rock Wastewater Treatment Plant Environmental Study Report"*, prepared by Engineering Northwest Limited, and dated March, 2012.

It is our understanding that the Red Rock Wastewater Treatment Plant was constructed in 1975, and provides primary treatment and chlorine disinfection of the effluent. Updgrading of the existing facility is required to provide secondary sewage treatment, to address sewage backups, and because much of the existing plant components and equipment are at the end of their serviceable life.

This project has been planned under Schedule "C" of the *"Municipal Class Environmental Assessment"* (Municipal Engineers Association. 2000, as amended in 2007) - the *Municipal Class EA*. The Environmental Study Report (ESR) documents the environmental assessment planning and consultation process followed for this project.

The ESR recommends reusing the existing Red Rock Mill lagoons to provide a secondary treatment process, and providing a new outfall sewer discharge to Nipigon Bay, in combination with reductions of extraneous flows in the sanitary sewer collection system.

We note that, in identifying the preferred solution, the Environmental Study Report (ESR), recommends the reduction of extraneous flows in the Township's sanitary sewer collection system through disconnecting weeping tiles and roof leaders, repairing maintenance holes, and other feasible means, yet no indication of timing is given. Please provide further detail as to the proposed time frame for these activities.

Section 5 of the ESR address environmental impacts and mitigation measures associated with the preferred alternative, yet little detail is provided regarding the recommended mitigation measures, particularly for Sections 5.1 (Terrestrial, Aquatic, Vegetation, and Wildlife) and 5.5 (Construction Activities). Please provide further detail regarding the mitigation measures to be used.

We further note that the ESR appears to provide little information on monitoring to be carried out during and after construction, as required by the *Municipal Class EA* (Section A.4.2.1). Please provide a description of the monitoring activities to be completed during and after construction of the proposed project.

Please do not hesitate to contact me if you have questions or wish to discuss these comments.

Yours truly,

Ellen Cramm

Ellen Cramm, MCIP, RPP
Environmental Planner/EA Coordinator

cc: Kathy Bemben, P. Eng., Project Manager, Engineering Northwest Ltd.
Paula Allen, APEP Supervisor
Paul Jordan, Sr. Environmental Officer

ENL
Engineering Northwest Ltd.
Consulting Engineers

May 24, 2012 PN 09080

Ministry of the Environment
Northern Region
435 James St. S. Suite 331
Thunder Bay, Ontario P7E 6S7

Attention: Ms. Ellen Cramm, MCIP, RPP
Environmental Planner/EA Coordinator

Dear Madam:

Re: Township of Red Rock
Wastewater Treatment System Upgrades
Class Environmental Assessment
Environmental Study Report

On behalf of the Township of Red Rock, we are writing in response to the questions and comments outlined in the Ministry of Environment's letter dated April 30, 2012 regarding the above project. We have reviewed your comments and would like to provide the following information. Please find below your questions/comments in ***italic*** print with additional information following.

1. ***We note that, in identifying the preferred solution, the Environmental Study Report (ESR), recommends the reduction of extraneous flows in the Township's sanitary sewer collection system through disconnecting weeping tiles and roof leaders, repairing maintenance holes, and other feasible means, yet no indication of timing is given. Please provide further detail as to the proposed time frame for these activities.***

It is anticipated that this work will proceed around the same time as construction of the new treatment facilities; however, this date has not yet been confirmed. Pending the outcome of the Part II Order request currently being reviewed and confirmation of funding, detailed design can commence followed by construction, which is likely to commence in the spring of 2013 and continue through to 2014.

2. ***Section 5 of the ESR address environmental impacts and mitigation measures associated with the preferred alternative, yet little detail is provided regarding the recommended mitigation measures, particularly for Sections 5.1 (Terrestrial, Aquatic, Vegetation, and Wildlife) and 5.5 (Construction Activities). Please provide further detail regarding the mitigation measures to be used.***

The ESR includes some discussion on proposed mitigation measures for potential environmental impacts in Section 5. It is anticipated that the general mitigating measures discussed in Appendix 2 of the MCEA document will be incorporated into construction specifications where applicable. It is anticipated that the following mitigation measures will be employed, at a minimum:

- Timing restrictions for in water work, in consultation with DFO/MNR/MOE;
- Timing restrictions for peregrine falcon habitat if required, in consultation with MNR;

- Sediment and erosion controls during construction to prevent sedimentation from entering the water. Further details will be obtained from the successful contractor's site specific erosion and sediment control plan.
- Re-vegetation of disturbed areas using indigenous species
- Provisions for spill control
- Construction materials used in the project should not be taken from below the high water level of any body of water

Adherence to the construction specifications that will be provided in the construction document must be accepted by the contractor as part of the contractual agreement. A construction inspector will monitor construction and the mitigating measures to ensure compliance.

3. ***We further note that the ESR appears to provide little information on monitoring to be carried out during and after construction, as required by the Municipal Class EA (Section A.4.2.1). Please provide a description of the monitoring activities to be completed during and after construction of the proposed project.***

We acknowledge that there is not much detail in the ESR with respect to monitoring during and after construction. However, much of this detailed information will not be available until the design and approvals process is underway. A detailed Operations and Maintenance Manual will be prepared which will summarize the required regulatory and other monitoring for the facility. Please see the monitoring activities discussed below:

<u>During Construction</u>

- A new treatment facility will be constructed; therefore the impact on the existing treatment operations will be minimal. It is anticipated that the existing monitoring practices will be maintained until the existing plant is fully decommissioned.
- There will be a number of other monitoring requirements associated with construction activities as follows:
    - Dewatering the mill lagoons will be necessary to construct berms in the existing lagoon. Previous conversations with the Ministry suggest that the liquid can be pumped out to the lake but a monitoring program will need to be put into place. It is anticipated that these details will be discussed further with the Ministry during detailed design/construction.
    - De-sludging the mill lagoons will be necessary to construct berms within the existing lagoon. Preliminary conversations with the Ministry suggest that the sludge can be placed at the existing landfill on the mill site. It is anticipated that sampling and analysis of the sludge to quantify the amount and composition will be carried out. A date for this sampling has not been established. It is anticipated that these details will be reviewed further with the Ministry during the detailed design of the project.

<u>Post Construction</u>

- Post construction monitoring will be completed, at a minimum, in accordance with the Certificate of Approval for the facility and associated legislation (i.e. OWRA). The quality of raw sewage and treated effluent will be monitored on an ongoing basis. Effluent sampling frequency and methodology must conform with the Certificate of Approval issued by the MOE for the new treatment facility. It is anticipated that the following effluent parameters will be monitored as per the effluent criteria provided by the Ministry:

  - BOD
  - Total Suspended Solids
  - Total Phosphorus
  - Toxicity
- Flow volumes received at and discharged from the new treatment facility will be monitored on an ongoing basis;
- Plant staff will follow-up on any complaints and monitor and nuisance impacts;
- The Township will continue to keep records of all monitoring/sampling results. These records will be made available to the MOE upon request. A summary report will be compiled on an annual basis and available for public review.

To the best of our knowledge, the Remedial Action Plan (RAP) for Nipigon Bay does not require any specific testing or monitoring to be completed during or after construction.

Should you have any questions, concerns or additional input for incorporation into the proposed project, please do not hesitate to contact the undersigned.

Yours very truly,

ENGINEERING NORTHWEST LTD.

K. Bemben, P.Eng.
KB:dc
Encl.

cc. Kal Pristanski – Town of Red Rock
Devon Wills – MOE Project Evaluator
Paula Allen – MOE APEP Supervisor
Paul Jordan – MOE Sr. Environmental Officer
Jose Casal - OCWA
Bruce McMullan – AECOM
Meseret Aniye – AECOM

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ENL

Engineering Northwest Ltd.

Consulting Engineers

May 25, 2012 PN 09080

Red Rock Resident #1

Dear Sir:

Re: Township of Red Rock
Wastewater Treatment System Upgrades
Class Environmental Assessment
Environmental Study Report (ESR)

We are writing in response to your questions dated April 27, 2012 and April 29, 2012 regarding the above project. We have summarized your questions below with answers following in *italic* print.

Questions dated April 27, 2012

1) ***How much of excess infiltration and inflow can be stopped without restricting weeping tile water and eaves trough water from entering the system?***

Inflow is generally defined as any direct input into the sanitary collection system such as weeping tile and sump pump connections, while infiltration is defined as water that enters the sanitary collection system through joints and cracks in manholes and/or piping.

In the May 2010 Inflow & Infiltration Desktop Study prepared by Engineering Northwest Ltd. (included as Appendix D to the ESR) an estimated 38% of the total sewage flow is a result of inflow and infiltration. The study also found that the inflow is typically estimated at a significantly higher proportion (2-4 times) of the total inflow and infiltration as compared to infiltration alone.

2) ***Would the small outfall pipe through the mill properly be a problem if there were no excess flows?***

The small outfall pipe would continue to be a problem if there were no excess flows due to its location on the mill property (i.e. the Township does not own the land so access may be an issue in the future). However, the pipe is physically large enough to handle the normal daily flows during dry weather.

200 South Syndicate Ave., Suite 301, Thunder Bay, ON P7E 1C9 Telephone (807) 623-3449 Fax (807) 623-5925 Email: general@enl-tbay.com www.enl-tbay.com

3) Are the increased costs for Mr. White's pipeline a result of excess flows?

The costs for all of the reviewed alternatives are higher than if compared to the same system with lower flows.

With respect to Mr. White's costs, we do not have detailed information to provide further comment.

4) Could you speculate what caused the big spike in the treated water use in 2008?

We believe this comment is with respect to the information provided in Table 2.1 of the ESR relating to sewage flows. The historical maximum day flow recorded was 4,876 m3/d in June 2008. This was likely a result of a heavy rainstorm.

5) Why were no bore holes drilled on mill property? Or am I mistaken on this?

There were no bore holes drilled on mill property as part of this study. However, a draft Phase 2 site investigation was prepared by Worley Parson Komex in October 2006 for the mill property. This report provided some background geotechnical information on the mill property, obtained partially by advancing boreholes, that was used as part of this study. See Section 2.3.1 of the ESR.

6) How many communities are you aware of that allow rainwater in the sanitary sewers?

Some sanitary sewer collection systems were initially installed with combined sewers that collected both domestic sewage and rainwater. This practice is no longer allowed today, however, it remains a problem for many communities in Ontario.

Infiltration of rainwater into the sanitary sewer is also a common problem to all systems.

Questions dated April 29, 2012

1) I have questions about this whole process - why there was no citizen participation at the meeting of December 7, 2011 where the environmental plan was adopted? I was the only public attendee. Why was this meeting at 6:00 pm and not on our regular council night? Why was this meeting not advertised in a fashion that people in our town are accustomed to? Every garage and bake sale is advertised by posting a notice on some bulletin board in town. Why does the town administration continue its obviously ineffective method of informing its citizens of important meetings?

If the Environmental Plan you are referring to is the Environmental Study Report (ESR), this document was presented to Council on March 7, 2012 for review and subsequently adopted at a regular Council meeting on March 19, 2012. See Section 1.6 of the ESR.

Concerns you have relating to meeting notifications, public participation at Council meetings etc. should be directed to the Township's administration.

2) ***Also I question administration's actions in refusing to give me a copy of the waste water treatment plan. Even the Freedom of Information request could not pry one out of the administration's hands. Some people in this town don't use computers. As to the plan itself, what am I actually being asked to comment on? At the last meeting I attended, Information released there seemed to contradict the handout the citizens received.***

As per the Notice of Completion advertised in the local newspapers and delivered by mail to yourself and other local residents, paper copies of the Environmental Study Report (ESR) were made available for review at the Municipal Office and at the library, and could also be checked out from the library. Additionally, an electronic version was available for review on the Township's website.

The public is asked to provide comments, questions or concerns on anything relating to the project.

If there are specific items that you believe are contradictory in the information provided please advise the undersigned.

3) ***I have some issues here. I am being asked to comment on a multimillion dollar construction project in planning for ten years. However, the planners involved don't seem to know where it is being built, or even what the project will look like when it is finished. Why will there be no open meeting? What possible reason can there be to not inform the citizens of this community in this major undertaking?***

The preferred alternative presented in the ESR is to upgrade the existing Red Rock Mill Lagoon, see Section 3.3.3 and 4.0 of the ESR.

Two public meetings were held to review the project in April 2010 and October 2011 and a 30-day review period was provided to allow the public an opportunity to review and comment on the ESR. Notices of the meetings and the ESR review period were advertised in the local newspaper and also mailed directly to local residents.

The public meetings and ESR review period were conducted in accordance with the Municipal Class Environmental Assessment and applicable legislation.

4) ***The cleanup costs for this mill site are unknown to me. The Thunder Bay paper has printed cleanup costs for the Terrace Bay and Marathon mill sites. Why would our town want to acquire this mill site and possible cleanup costs of millions of dollars? Whatever system will be built, I am astounded by the weeping tile water and even eaves trough water entering the system. How much extra cost is added to whichever system is chosen to handle all these peak flows? What percentage***

of total capital costs will be paid by the 20% of the township residents now on their own septic fields?

The Ministry of the Environment (MOE) indicated that the former mill owner (Cascades) has money in trust to complete remediation work at the mill site. Furthermore, the MOE advised that they have no concerns with using the existing Mill lagoons for the municipal wastewater treatment plant. The site has been dormant for over 5 years, and dilution from rainfall and snowmelt may have occurred. Sampling and testing of the sediment will be required during detailed design if the Mill lagoon is to be reused. See Table 1.3 of the ESR.

It should be noted that the Township only intends on acquiring the land required for the project, not the entire mill site. The existing lagoon sludge will be required to be sampled to ensure there are no environmental issues with the sludge.

The cost estimates for the reviewed alternatives have been developed as presented in the ESR for an average day flow rate of 900 m^3/d and a peak flow rate of 4,876 m^3/d. Cost estimates have not been developed for a lower flow rate that may be applicable if the inflow and infiltration flow are removed/reduced, so any difference in cost is unknown.

Funding is available from the provincial and federal governments for the capital costs of the project.

Questions with respect to costs to be borne by individual property owners should be directed to the Township.

5) ***I did have the privilege of hearing one presentation on Mr. Muloin's and Mr. White's spray system. Some of the information he presented was closed to the public. I think their system proposal has the greatest return potential for our town. They would try to build a showpiece system to sell globally. The town could potentially benefit from future sales, good training, and construction of the storage building, etc.***

This system was evaluated as one of the alternatives and detailed information regarding the evaluation can be found in Section 3.2.8 and Table 3.3 of the ESR.

6) ***I believe they were the low bidder until extra piping costs were added. Would this increase in pipe diameter be necessary if all the extra flows were not present? I would prefer the site chosen to be south of town, where the water runoff will have less impact on our water intake.***

The preferred alternative is to reuse the existing mill lagoons, which are downstream of the water intake. Based on the information provided by Northern Watertek (NWT), we understand changes in pipe diameters in the NWT proposal were due to a change in site from Area 2 to the mill site.

7) ***At the meeting of December 7, 2011 the unanswered question posed was: "How long does it take to build a sewage treatment plant anyway?" Nobody answered. Also it is doubtful to me that the town's citizens understand the current funding commitments. I'm also doubtful the targeted completion date can be met.***

There are a number of factors, such as site conditions, contractor availability, availability of material etc. that can have an impact on the implementation and construction schedule.

Government funding (totalling $9 million) for the project is anticipated to be available until at least March 31, 2014, so the project would need to be completed by this date. It is anticipated that any of the alternatives can be constructed within the required timeframes.

Should you have any questions please do not hesitate to contact the undersigned.

Yours very truly,

ENGINEERING NORTHWEST LTD.

K. Bemben, P.Eng.
KB:dc
Encl.

cc. Kal Pristanski – Township of Red Rock
Jose Casal - OCWA
Bruce McMullan – AECOM
Meseret Aniye – AECOM

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September 14, 2012

Kathy Bemben, P. Eng., FEC
Senior Associate
Hatch Mott MacDonald
Suite 301, 200 S. Syndicate Ave.,
Thunder Bay ON
P7E 1C9

Dear Kathy:

As outlined in our conversations over the past week the Council of the Corporation of the Township of Red Rock has made the difficult decision to rescind the motion accepting the ESR for the new Waste Water Treatment Facility for the following reasons:

1. The Red Rock Mill site is in year 5 of tax arrears owing the Township over $2.1M in back taxes. The site has been advertised for tax sale twice in the past year (March & May 2012) with no purchasers. The Township is in the position to vest the property but the Township would take on the associated liabilities of the entire mill site (not just the lagoons) and the liability of the clean-up would be too much for the Township to bear. You can also appreciate with this huge amount of back taxes the Township finances are quickly depleting.
2. The Township could expropriate the lagoons and the area to access them but when we approached Minister Bob Chiarelli (Infrastructure & Transportation) at the Ontario Good Roads Association meeting in Toronto in February 2011 and again in February 2012 requesting that infrastructure funding for the project be used to purchase the lagoons the answer at the meeting was that we could get a low interest loan to purchase them. Kathy the Township finances are in such a state that we simply cannot afford to take on any debt.

3. We had approached Mr. Van Patten (the current owner of the Red Rock Mill Inc.) to discuss a 75 year lease of the property and he gave his blessing to proceed with drawing up the lease. When we sent him the lease he replied that he now has a potential buyer for the Mill site and that he forwarded the lease to the potential new owner consideration. The signed lease has not been returned and the potential new owner has indicated to the Mayor that he would be willing to negotiate a transfer for consideration of back taxes. This cannot be done under the Municipal Act as the taxes must be paid on a property when it is sold. The Township cannot be held hostage to negotiating with a potential buyer when we have no money to purchase the lagoons.

With these reasons in mind Council decided to forgo the lagoon site and proceed with an RBC system which is the same as the neighbouring Township of Nipigon has just installed. There may even be economies of scale with the two Townships operating the same system.

I hope this clarifies the Township position on this matter and as time is running out on the process we must proceed as quickly as possible.

Yours truly,

Kal Pristanski, CAO
Township of Red Rock

ENL

Engineering Northwest Ltd.

Consulting Engineers

September 25, 2012 PN 09080

Ministry of the Environment
Environmental Assessment Services
2 St. Clair Avenue West
Toronto Ontario, M4V 1L5

Attention: Mr. Devon Wills
Project Evaluator

Dear Mr. Wills:

Re: Township of Red Rock
Red Rock Wastewater Treatment Plant Environmental Study Report
Notice of Intent to File Addendum to Environmental Study Report

We are writing on behalf of the Township of Red Rock regarding the Red Rock Wastewater Treatment Plant Environmental Study Report (ESR) dated March 2012, specifically, the Township's intent to file an Addendum to the ESR.

The preferred alternative stated in the March 2012 ESR was to upgrade the existing Red Rock Mill lagoon with an aerated lagoon and a new outfall into Nipigon Bay. As discussed in the ESR, prior to this alternative being implemented, the land for the lagoons must be acquired by the Township (Refer to Table 3.3 and Section 5.8 of the ESR).

The Township has been working diligently to acquire the land required to implement the preferred alternative, however, the Township has been unsuccessful for the reasons stated below:

1) The Red Rock Mill site is in year 5 of tax arrears owing the Township over $2.1 million in back taxes. The site has been advertised for tax sale twice in the past year (March & May 2012) with no purchasers. The Township is in the position to vest the property but the Township would take on the associated liability of the entire mill site (not just the lagoons) and the liability of the clean-up would be too much for the Township to bear.

2) Funding is not available to purchase the land required. The Township could expropriate the lagoons and the area to access them, but when the Township approached Minister Bob Chiarelli (Infrastructure & Transportation) at the Ontario Good Roads Association meeting in Toronto in February 2011 and again in February 2012 requesting that infrastructure funding for the project be used to purchase the lagoons the answer at the meeting was that we could get a low interest loan to purchase them. The Township finances are in such a state that the Township simply cannot afford to take on any debt.

3) The Township approached Mr. Van Patten (the current owner of Red Rock Mill Inc.) to discuss a 75 year lease of the property and he agreed to proceed with preparation of lease documents. When the Township sent him the lease document he replied that he now has a potential buyer for the mill site and that he forwarded the lease to the potential new owner for consideration. The signed lease has not been returned and the potential new owner has indicated to the Mayor that he would be willing to negotiate a transfer for consideration of back taxes. This cannot be done under the Municipal Act as the taxes must be paid on a property when it is sold.

For these reasons, the utilization of the existing Red Rock Mill lagoons as presented in the ESR is no longer a viable alternative. As a result, the Township has decided to prepare an addendum to the ESR to review the remaining alternatives previously evaluated – see Council motion enclosed as Annex A.

The Council Motion states that the Township wishes to proceed with the RBC System at the current site. This was one of the alternatives previously evaluated and may well end up being the new preferred alternative, however all of the previous alternatives well be reassessed as part of the Addendum process.

The following is the proposed outline for the ESR Addendum:

- Review the remaining alternatives previously evaluated in the ESR, which are as follows:
  - Upgrade Existing Plant on Existing Site;
  - Construct a New Lagoon on a New Site;
- Select the preferred alternative;
- Update Section 4 - Alternative Design Solutions of the ESR based on the preferred alternative;
- Update Section 5 - Environmental Impacts and Mitigation Measures of the ESR based on the preferred alternative;
- Update Section 6 - Conclusions & Recommendations of the ESR based on the preferred alternative
- Update Section 7 - Recommendations of the ESR based on the preferred alternative
- Upon review and acceptance by the Township of Red Rock Council, the Addendum will be filed with the ESR and the Notice of Filing of Addendum will be given to all potentially affected members of the public and review agencies as well as those that were notified in the preparation of the March 2012 ESR.

Proposed timeline for filing of Addendum:

- November 5 – Draft Addendum to Township Council for review/approval;
- November 12 – Filing of Addendum on Public Record
- November 13 – First Advertisement in local publication Nipigon-Red Rock Gazette
- November 20 – Second Advertisement in local publication Nipigon-Red Rock Gazette
- December 13 – End of Addendum review period

Please contact the undersigned if there are any questions.

Yours very truly,

ENGINEERING NORTHWEST LTD.
A Division of ~~Hatch~~ Mott MacDonald

D. Currie, C.E.T.

Cc. Kal Pristanski – Township of Red Rock
Dave Pettersen – Township of Red Rock
Bruce McMullan – AECOM
Meseret Aniye – AECOM
Jose Casal – OCWA

E:\ENL\PN09080\Environ\ESR\2012 ESR\ESR Addendum - MOE.docx

ANNEX A

TOWNSHIP OF RED ROCK

MOVED BY: _____ DATE: SEPTEMBER 17, 2012

SECONDED BY: _____ RES. NO.: 11

BE IT RESOLVED THAT

Council rescind Motion #10 from the regular Council meeting of March 19, 2012 which accepted the Final Report of the ESR for the Waste Water Treatment Plant prepared by Engineering Northwest due to the inability of the Township to acquire the required lands and proceed with the RBC system at the current Waste Water Treatment Plant.

TOWNSHIP OF RED ROCK
CERTIFIED TRUE COPY
_____
CLERK

FOR: ✓

AGAINST: _____

_____
MAYOR'S SIGNATURE

Ministry of the Environment

Environmental Approvals Branch

2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement

Direction des autorisations environnementales

2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Téléc. : 416 314-8452

Ontario

October 5, 2012

Mr. Dan Currie
Hatch Mott MacDonald
Suite 301, 200 S. Syndicate Ave.
Thunder Bay ON P7E 1C9

Dear Mr. Currie:

Thank you for your September 25, 2012 letter to the Ministry of the Environment (MOE), with respect to the Township of Red Rock's proposed Red Rock Wastewater Treatment Plant Project (Project).

Further to your correspondence and the conversation you had with staff of the Environmental Approvals Branch on October 4, 2012, it is the MOE's understanding that the Township of Red Rock has decided to withdraw the Notice of Completion for the Project, prepared under the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA), to complete additional documentation prior to resubmitting the Notice of Completion at a later date. If the Township of Red Rock wishes to proceed with the Project, it must demonstrate that the Class EA planning process has been followed and is clearly traceable in the Project File. Once the Township of Red Rock has completed its additional studies and have documented it in accordance with the Class EA requirements, a new Notice of Completion will be re-issued, and a new 30-day public review period will commence.

With the termination of the Class EA process and the absence of a proposed undertaking under the Environmental Assessment Act (EAA), a decision about the Part II Order requests submitted to the Minister of the Environment is not required.

If you have any questions with respect to this matter, please contact Mr. Devon Wills, Project Evaluator at this Branch, at (416) 314-8259.

Yours sincerely,

for Ross Lashbrook
(A) Manager, Environmental Assessment Services Section
Environmental Approvals Branch

c: Kal Pristanski, CAO, Township of Red Rock
Requester

OCT 17 2012

Bemben, Kathy

From: Currie, Daniel
Sent: November-26-12 10:11 AM
To: Jordan, Paul (ENE)
Cc: Bemben, Kathy
Subject: RE: Red Rock STP Upgrades.

The revised ESR will be prepared after the PCC.

Dan

From: Jordan, Paul (ENE) [mailto:Paul.Jordan@ontario.ca]
Sent: November-26-12 10:06 AM
To: Currie, Daniel
Subject: RE: Red Rock STP Upgrades.

Thanks Dan. Has the addendum been filed or just given to council in draft?

From: Currie, Daniel [mailto:Daniel.Currie@hatchmott.com]
Sent: November 26, 2012 10:02 AM
To: Jordan, Paul (ENE)
Cc: Bemben, Kathy
Subject: RE: Red Rock STP Upgrades.

Hi Paul,

A Public Consultation Centre is scheduled for December 5, notices will be going out this week.

Dan

From: Jordan, Paul (ENE) [mailto:Paul.Jordan@ontario.ca]
Sent: November-26-12 9:54 AM
To: Currie, Daniel
Subject: Red Rock STP Upgrades.

Hi Dan,
Can you give me a quick update on the Red Rock proposed STP upgrades and let me know where we are in the addendum process. Thanks.
Paul

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Attention:
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09080 Env

Bemben, Kathy

From: Bemben, Kathy
Sent: December-04-12 8:09 AM
To: [redacted]
Subject: FW: public meeting
Attachments: image001.jpg

Mr. [redacted]

The Public meeting will be in an Open House format. There will be displays set up for viewing and project team members will be present to answer any questions that may arise.

There is no scheduled presentation.

If there are any other questions please let me know.

Regards

Kathy

Kathy Bemben, P. Eng., FEC
Senior Associate
Hatch Mott MacDonald | Kathy.Bemben@hatchmott.com
Suite 301, 200 S. Syndicate Ave., Thunder Bay ON P7E 1C9
T 807-623-3449 ext.225 F 807-623-5925

Hatch Mott MacDonald
Delivering Solutions

From: [redacted]
Sent: December-03-12 8:59 PM
To: Osipenko, Wayn [redacted]
Subject: public meeting

Dear Ms.K. Bemben

Thank-you for your letter advising me of Red Rock's third public consultation meeting of Wednesday next, Could you please send me the agenda for the meeting? I am interested in knowing if a presentation is planned and what time it will take place.
Please reply by e-mail.

Red Rock Resident #1

Ministry of the Environment

435 James Street South
Suite 331
Thunder Bay ON P7E 6S7
Tel.: 807 475-1747
Fax: 807 475-1754

Ministère de l'Environnement

435, rue James sud
Bureau 331
Thunder Bay ON P7E 6S7
Tél. : 807 475-1747
Téléc. : 807 475-1754

Ontario

Date: December 5, 2012

MEMORANDUM

TO: Paul Jordan
Senior Environmental Officer
Thunder Bay District, Northern Region

FROM: Jacinth Gilliam-Price
Surface Water Specialist
Technical Support, Northern Region

RE: **Red Rock Wastewater Treatment Plant Upgrade**
Effluent Criteria for Discharge to Nipigon Bay, Lake Superior

---

As requested, provided below are recommended effluent criteria to be utilized for design of the improvements planned for the Township of Red Rock's wastewater treatment plant (WWTP) as a result of upgrading from primary to secondary treatment. The following documents were consulted as part of this review:

- Public Consultation Centre – Open House presentation document entitled "Township of Red Rock Class Environmental Assessment for the Red Rock Wastewater Treatment Plant Upgrades", dated October 26, 2011, and prepared by Engineering Northwest Ltd. and Aecom.
- Canadian *Wastewater System Effluent Regulations*, SOR/2012-139, Current to November 19, 2012, pursuant to the *Fisheries Act*.
- MOE's "Guidelines F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters".
- MOE's "Procedure F-5-1 Determination of Treatment Requirements for Municipal and Private Sewage Treatment Works Discharging to Surface Waters".
- MOE's "Procedure F-5-3 Derivation of Sewage Treatment Works Effluent Requirements for the Incorporation of Effluent Requirements into Certificates of Approval for New or Expanded Sewage Treatment Works".
- Amended Certificate of Approval – Municipal and Private Sewage Work, Number 9678-8KCPTS, issued to The Corporation of the Township of Nipigon, and dated August 12, 2011

BACKGROUND

The Red Rock Wastewater Treatment Plant, which was constructed in 1975 with rated and peak capacities of 1272 m^3/day and 3864 m^3/day respectively, currently provides primary treatment and chlorine disinfection of the effluent followed by discharge to a ditch and eventually to Nipigon Bay adjacent to the former pulp & paper complex. The Township of Red Rock's water

treatment plant intake is located in Nipigon Bay, upstream of the existing and proposed WWTP and its outfall. The plant's average daily sewage flow for the years 2007 to 2009 was 697 m^3/day, while the projected average daily sewage flow for the year 2031 is estimated at 916 m^3/day.

Upgrades are planned for the existing facility to provide secondary treatment, which will aid in the removal of dissolved and suspended solids from the wastewater prior to discharge into Nipigon Bay. It is understood that upgrades will address sewage backups and replace existing plant components and equipment that are at the end of their serviceable life. As secondary treatment of municipal wastewater is required in Ontario, as per MOE's "Guidelines F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters", the upgrades will also assist in delisting the Nipigon Bay as an Area of Concern in Ontario, as classified by the Water Quality Board of the International Joint Commission due to water pollution.

DISCUSSION AND RECOMMENDATIONS

The discussion and recommendations provided below are based on an effluent discharge to Nipigon Bay; however, should an alternative discharge location be considered, the alternative proposal and effluent objective will have to be re-evaluated.

The relatively small and improved WWTP effluent discharge will continue to be easily assimilated by the Nipigon Bay of Lake Superior at its current discharge location. In addition, there are no known drinking water intakes or recreational beaches within at least 1.5 km. For these reasons, a receiving-water assimilative capacity assessment was not undertaken.

Instead, and for consistency, the effluent criteria below were developed in consideration of the Township of Nipigon's current Municipal and Private Sewage Works Certificate of Approval for their WWTP, as well as the new federal *Wastewater Systems Effluent Regulations*, which come into force on January 1, 2015.

Effluent objectives and limits recommended to be considered in the design of the upgraded WWTP and included in an amended ECA for the plant include the following:

Effluent Objectives

Effluent Objectives	
Effluent Parameter	**Concentration Objective** (milligrams per litre unless otherwise indicated)
$CBOD_5$	15
Total Suspended Solids	15
Total Phosphorus	0.8
E. coli	200 organisms/100 mL (monthly *Geometric Mean Density*)
pH of the effluent maintained between 6.5 to 8.5	

Effluent Limits

Effluent Limits	
Effluent Parameter	**Monthly Average Concentration** (milligrams per litre unless otherwise indicated)
$CBOD_5$	25
Total Suspended Solids	25
Total Phosphorus	1.0
Total Residual Chlorine	0.02
Un-ionized Ammonia	1.25 (at 15°C)
E. coli	200 counts/100 mL (monthly *Geometric Mean Density)*
Acute Lethality – rainbow trout	50% mortality
pH of the effluent maintained between 6.0 to 9.5, inclusive, at all times	
Each rainbow trout acute lethality test and each acute lethality test performed on any grab sample of effluent shall result in mortality for no more than 50 percent of the test organisms in 100 percent effluent.	

It is recommended that the effluent is non-acutely lethal to Rainbow Trout by ensuring that each Rainbow Trout acute lethality test performed on any grab sample of effluent shall result in mortality for no more than 50 percent of the test organism in 100 percent effluent.

It is further recommended that the effluent is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters.

Monitoring

It is recommended that effluent samples be conducted at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

Effluent Monitoring (Sampling point at the outlet of the disinfection unit or at the outfall sewer as close as possible to the *Works*)		
Parameter	**Sample Type**	**Frequency**
Column 1	Column 2	Column 3
$CBOD_5$	24-hour composite	Weekly
Total Suspended Solids	24-hour composite	Weekly
Total Phosphorus	24-hour composite	Weekly
Total Ammonia Nitrogen (Ammonia + Ammonium Nitrogen)	24-hour composite	Weekly
Nitrate Nitrogen	24-hour composite	Weekly
E. coli	grab	Weekly
Residual Chlorine	24-hour composite	
Acute Lethality – Rainbow trout	grab	Quarterly
pH	grab/probe	Weekly
Temperature	grab/probe	Weekly

In consideration of the effluent criteria recommended above, the detailed design for Red Rock's upgraded WWTP should consider designs that have the capacity for nutrient removal, non-acutely lethal effluent, energy efficiency and capacity for storm-surge protection to reduce or protect against sewage bypasses/overflows.

If you require further information or clarification, or if you wish to discuss these comments, please do not hesitate to contact me.

Sincerely,

Jacinth Gilliam-Price

Jacinth Gilliam-Price
Surface Water Specialist
Northern Region

c:

Regional File - TS 42-02 – Nipigon Bay (Red Rock, Township of – Wastewater Treatment Plant Effluent Criteria)
MOE Thunder Bay Office

file 09080 dnw

Bemben, Kathy

From: Bemben, Kathy
Sent: December-06-12 11:47 AM
To: 'Jim Bailey'
Cc: Currie, Daniel
Subject: RE: RED ROCK OPEN HOUSE
Attachments: image001.jpg; RedRock-PCC#3-DisplaysB&W-Dec5-2012.pdf; RedRock-PCC#3-DisplaysColour-Dec5-2012.pdf

Hi Jim,

Please see enclosed the display board information from the PCC held yesterday in Red Rock, in both black and white and colour versions. Wasn't sure which you preferred.

I noticed this morning that one of the displays was missing from the little coil booklet that we had at the meeting, I think you picked one up. It is included in the attached files however.

We will add you to our contact list, in place of Aaron Nicholson, as you advised you have taken over his position.

Please let me know if there are any questions or concerns.

Regards

Kathy

Kathy Bemben, P. Eng., FEC
Senior Associate
Hatch Mott MacDonald |
Suite 301, 200 S. Syndicate Ave., Thunder Bay ON P7E 1C9
T 807-623-3449 ext.225 **F** 807-623-5925
kathy.bemben@hatchmott.com

Hatch Mott MacDonald
Delivering Solutions

From: Jim Bailey [mailto:jfbailey@lakeheadu.ca]
Sent: December-05-12 8:46 PM
To: Bemben, Kathy
Subject: RED ROCK OPEN HOUSE

Kathy,

Excellent open house in Red Rock with good attendance. Thanks for answering some of my questions. As mentioned, I would be very interested in receiving the presentation (poster board) slides, if you have a chance to email them to me. They will be distributed to members of the Public Advisory Committee to the Nipigon Bay Remedial Action Plan.

Thank you very much.

Jim Bailey
Thunder Bay/Nipigon Bay
Remedial Action Plan
Coordinator
mailto:mercdivertsuperior@yahoo.com
807-343-8514

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file 09080 Dnw

Bemben, Kathy

From: Red Rock Resident #2
Sent: December-10-12 9:54 PM
To: Bemben, Kathy
Subject: Red Rock waste water treatment plant upgrade

Good Day Kathy:

Had several questions that came to mind after the session on Dec. 5th at Red Rock. This approximately $6.5million project is projected to begin in late 2014. When is the earliest that it might begin..including "pre-shovel in the ground" activities? Is there a ball park estimate of the length of this project? As noted in the meeting there are a number of other principals involved in the building of this facility including Ontario Clean Water Agency and Aecom. What other planning or on site partners will be involved in the creation of this plant?

Advanced planning for this project is a significant consideration relating to office and residential facilities. Todesco Enterprises in Red Rock, of which I am a partner have facilities that may be of interest to your agency and to related firms. Although this may appear early to consider, we are of the belief that it is wise to prepare well in advance. May we have an opportunity to review with you what your office needs may be and review if our offering is of benefit to your firm? We would be pleased to provide you with a viewing of our facilities or even meet with you to share information on our building.

Accommodations in our community is somewhat of a challenge for commercial/business and residential needs. As you are aware, there will be a spike in construction activity in the area with the bridge and highway four-laning. It may be of benefit to prepare in advance as there will be competition for accommodations. Our building is located only 200 feet from the preferred #1 building site of the plant.

Looking forward to hearing from you. Take care.

Red Rock Resident #2
Red Rock, Ontario

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For more information please visit http://www.symanteccloud.com

Currie, Daniel

From: Kal Pristanski [cao@shawbiz.ca]
Sent: February-21-13 10:08 AM
To: Currie, Daniel
Subject: FW: New proposed line for sewage pipe
Attachments: 55R_13295_new part.pdf

From: ray.boudreau@pc.gc.ca [mailto:ray.boudreau@pc.gc.ca]
Sent: January 11, 2013 3:04 PM
To: cao@shawbiz.ca
Cc: doug.yurick@pc.gc.ca
Subject: New proposed line for sewage pipe

Hi Kal The attachment shows the area (redline) that would be excluded from the NMCA. Please let me know if you are ok with this. Thanks, Ray

Ray Boudreau
Manager/Gestionnaire de parcs/lieux
Lake Superior National Marine Conservation Area/Aire marine nationale de conservation du Lac-Supérieur
Parks Canada Agency/Parcs Canada
22 Third Street PO Box 998/ 22, rue Third, C.P. 998
Nipigon, Ontario P0T 2J0/Nipigon (Ontario) P0T 2J0
Telephone: 807-887-5468/Téléphone: 807-887-5468
Cell: 705-943-3103 /Cellullaire: 705-943-3103

English: www.parkscanada.gc.ca/superior
Francais: www.parcscanada.gc.ca/superieur

The War of 1812: A Time to Discover | La guerre de 1812 - Une époque à découvrir

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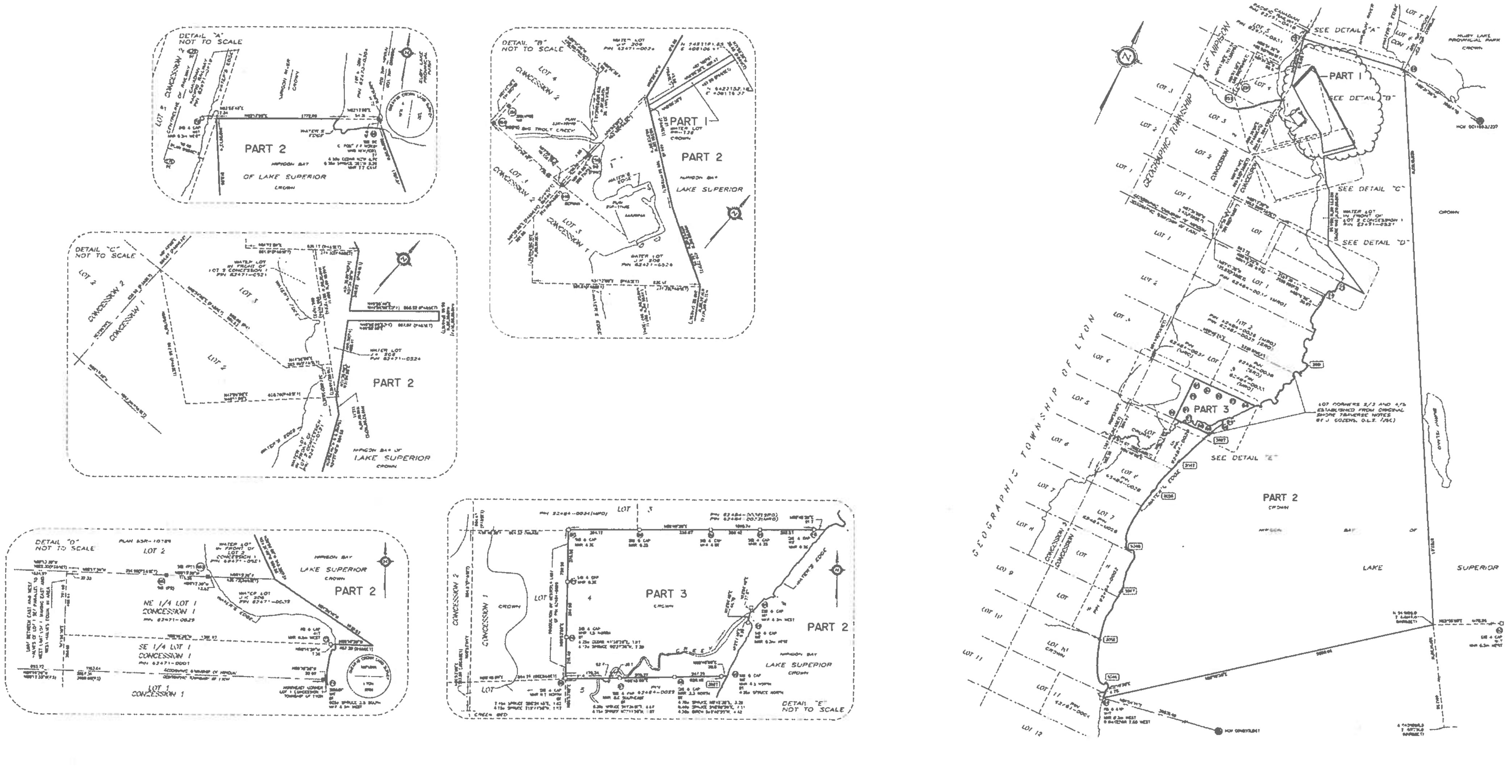
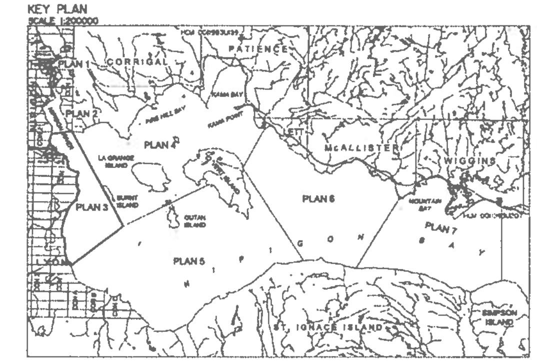


SCHEDULE

PART	MINING CLAIM	LOCATION	AREA/ha	AREA/ac	P.I.N.	RIGHTS SURFACE/MINING	REMARKS
1	—	ALL OF WATER LOT LOCATION PP-728	1.501 ha	3.709 ac	Crown	—	1 AND 2 LAND UNDER WATER
2	—	PART OF THE BED OF NIPIGON BAY OF LAKE SUPERIOR IN FRONT OF GEOGRAPHIC TOWNSHIPS OF LYON AND NIPIGON	3,210 ha	7932 ac			
3	—	PART OF LOT 4 CONCESSION 1 TOWNSHIP OF LYON	66.014 ha	163.066 ac			
		TOTAL AREA	3279.0??ha	8103.775ac			

KEY PLAN
SCALE 1:200000



HORIZONTAL CONTROL MONUMENTS NAD83 (CSRS) 6° UTM - ZONE 16			
NUMBER	NORTHING	EASTING	ELEVATION
00119830799	5430440.112	423839.332	194.340
00119830207	5417521.863	447079.613	266.536

COORDINATES OF LEGAL SURVEY MONUMENTS NAD83 (CSRS) 6° UTM - ZONE 16			
POINT	NORTHING	EASTING	REMARKS
60	5417011.83	417999.49	CIP
64	5411619.00	405516.55	RB
65	5433775.89	409581.51	SIB
69	5416890.00	409354.82	SIB
69	5410939.61	409351.90	SIB
77	5473628.61	402793.91	SIB
73	5419953.23	410158.93	IB
74	5418638.17	410005.09	SIB
78	5417075.01	408578.07	SIB
80	5417351.45	408583.75	SIB
81	5417353.45	408873.39	SIB
82	5417253.53	409136.34	SIB
83	5417354.71	409396.75	SIB
84	5417355.17	403678.98	SIB
85	5416395.58	408574.52	SIB
86	5416591.79	405571.16	SIB
87	5416564.65	408741.38	SIB
88	5414599.71	700998.53	SIB
93	5416575.42	409158.63	CIB
249	5432113.11	407885.74	IB
250	5433314.03	407851.55	SIB
251	5432252.13	407118.19	SIB
253	5422140.96	407115.01	SIB
961	5430463.49	409147.53	SIB
963	5430439.61	409362.69	SIB
ALL COORDINATES ARE IN METRES, ARE RELATED TO UTM ZONE 16 (87°W LONGITUDE) NAD83 CSRS AND HAVE A RELATIVE ACCURACY TO MEET REQUIREMENTS OF A "RURAL AREA" AT THE 95% CONFIDENCE LEVEL			

COORDINATES OF SURVEYED SHORELINE (WATER'S EDGE) NAD83 (CSRS) 6° UTM - ZONE 16		
POINT	NORTHING	EASTING
3046	5411981.38	409455.77
3047	5413435.57	409007.76
3048	5414173.87	408761.50
3049	5415335.77	408994.33
3231	5418381.85	410257.92
3657	5412519.51	409038.75
3293	5416765.04	409362.81
3337	5414571.74	409325.07

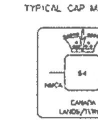
COORDINATES OF CENTRELINE OF CPR RAILS NAD83 (CSRS) 6° UTM - ZONE 16		
POINT	NORTHING	EASTING
C71	5429453.75	407728.34
C72	5433687.69	401740.03

LEGEND

HCM	DENOTES	HORIZONTAL CONTROL POINT
□	DENOTES	PLANTED
■	DENOTES	FOUND
IB	DENOTES	IRON BAR
SIB	DENOTES	STANDARD IRON BAR
RB	DENOTES	ROCK BAR
BC	DENOTES	BRASS CAP
BT	DENOTES	BEARING TREE
C. POST	DENOTES	CEDAR POST
FNE	DENOTES	FOUND NO EVIDENCE
MKR	DENOTES	MARKER POST
MKD	DENOTES	MARKED
MNR	DENOTES	MINISTRY OF NATURAL RESOURCES
MTO	DENOTES	MINISTRY OF TRANSPORTATION OF ONTARIO
NM	DENOTES	NO MARKERS
OU	DENOTES	ORIGIN UNKNOWN
PC	DENOTES	POINT OF CURVATURE
SM	DENOTES	STONE MOUND
WIT	DENOTES	WITNESS
WP	DENOTES	WOOD BLOCK POST
Pa	DENOTES	PATENT 4853
TE10	DENOTES	INSTRUMENT NUMBER F09777
JSC	DENOTES	FIELD NOTE OF THE REMOLE OF THE TOWNSHIP OF LYON BY J. COZENS DEC. 1884
P1	DENOTES	PLAN OF SURVEY OF THE TOWNSHIP OF LYON BY J. COZENS, DATED DEC 19, 1884
P2	DENOTES	PLAN 55R-10959
P3	DENOTES	PLAN 55R-10300
P4	DENOTES	PLAN OF SURVEY OF WATER LOT JK 206, DATED AUG 12, 1930
P5	DENOTES	PLAN OF SURVEY OF WATER LOT IN FRONT OF LOT 2, CONCESSION 1, NIPIGON TOWNSHIP, DATED AUG 28, 19??
P6	DENOTES	PLAN OF AMENDED WATER LOT PP-728, DATED SEPT 26, 1946
P7	DENOTES	PLAN OF SURVEY OF WATER LOT JK 207, DATED MARCH 2, 1938
P8	DENOTES	PLAN 55R-10830
P9	DENOTES	PLAN 55R-1869
CROWN	DENOTES	ONTARIO CROWN

SUMMARY OF VERTICAL CONTROL POINTS (COND 96)				
NUMBER	NORTHING	EASTING	ELEVATION	REMARKS
11	5408731.871	430060.811	195.080	RB at Nipigon Strait - Benchmark
3500	5406439.067	430087.371	194.553	RB Reference to BM 11
1501	5408432.483	420096.004	185.139	RB Reference to BM 11
3503	5408429.870	420094.333	182.900	Water Elevation at BM 11 Nipigon Bay September 26 2009
40	5418940.635	449001.331	188.400	SIB NE Corner Area 5 - Benchmark
1939	5419917.745	469001.753	155.736	SIB Reference to BM 40
1319	5419934.448	446013.933	166.497	SIB Reference to BM 40
3336	5413971.525	467667.536	183.900	Water Elevation at BM 40 Nipigon Bay October 5 2009
100199	5430449.143	423830.332	194.340	CSAS HCM/VCM 00119830199
100201	5430637.890	475930.544	705.415	VCM 0011983U351
100207	5417521.593	447076.613	205.529	CSAS HCM/VCM 0011983U207

TYPICAL CAP MARKINGS



I require this plan to be deposited under The Land Titles Act

Date September 20, 2011

Paul J. Gregoire (signature)

PAUL J. GREGOIRE O.L.S./C.L.S.

PLAN 55R-13295

Received and Deposited

Date 2011-10-19

'Alex Saccomani' (signature)

REPRESENTATIVE FOR LAND REGISTRAR FOR THE LAND TITLES DIVISION OF THE THUNDER BAY REGISTRY OFFICE (NO.55)

PERMISSION TO DEPOSIT THIS PLAN OF SURVEY OF CROWN LAND WAS GIVEN BY THE SURVEYOR GENERAL OF ONTARIO ON THE 18TH DAY OF OCTOBER, 2011.

CANADA LANDS SURVEY RECORDS

DATE ____________

FIELD NOTES FOR THIS PLAN ARE RECORDED UNDER NO ____________

PLAN OF SURVEY OF LOCATION CL 16597

BEING

ALL OF WATER LOT LOCATION PP-728

AND

PART OF LOT 4, CONCESSION I, GEOGRAPHIC TOWNSHIP OF NIPIGON

AND

PART OF THE BED OF LAKE SUPERIOR IN FRONT OF THE GEOGRAPHIC TOWNSHIPS OF LYON AND NIPIGON

DISTRICT OF THUNDER BAY

PROVINCE OF ONTARIO

MMM GEOMATICS ONTARIO LIMITED
ONTARIO LAND SURVEYORS
2009

SCALE 1:25000

0 250 500 750 1000 1500 2500 metres

Department of Natural Resources
Approved for Recording in the C.L.S.R.

Cindy Haemon, DLS, CLS — Date
Head, Ontario Client Liaison Unit
Canada Centre for Cadastral Management

BEARING NOTE :

BEARINGS ARE GRID DERIVED FROM SIMULTANEOUS STATIC GPS OBSERVATIONS ON CONTROL STATIONS 00119830799 AND 00119830207 AND ARE REFERRED TO THE CENTRAL MERIDIAN UTM NAD83 (CSRS) ZONE 16 (87° WEST LONGITUDE).

NOTES :

DISTANCES ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY APPLYING THE AVERAGE COMBINED SCALE FACTOR OF 0.99964?

ALL MONUMENTS SET ON THE EXTERIOR LIMITS DURING THIS SURVEY HAVE CAPS PERMANENTLY AFFIXED TO EACH AND ARE MARKED AS ILLUSTRATED IN DETAIL OF TYPICAL CAP MARKINGS.

ALL MARKER POSTS ARE METAL "T" BARS WITH A PLAQUE INSCRIBED "SURVEY MONUMENT" & "NUMBER" AND ARE PLACED 0.30m FROM THE SURVEY MONUMENT UNLESS OTHERWISE NOTED

LEGAL SURVEY MONUMENTS WERE COORDINATED BY STATIC AND/OR RTK GPS OBSERVATIONS AND/OR CONVENTIONAL TOTAL STATION OBSERVATIONS.

THE LIMITS OF THE CANADIAN PACIFIC RAILWAY HAVE BEEN RE-ESTABLISHED IN ACCORDANCE WITH PLAN PA-86 AND/OR THE POSITION OF THE CENTRE LINE OF THE EXISTING CPR MAINLINE TRACK.

THE POSITION OF THE WATER'S EDGE AS SHOWN ON THIS PLAN HAS BEEN DERIVED FROM AERIAL IMAGERY BY FIRST BASE SOLUTIONS, THAT WAS FLOWN IN SPRING 2008 AND IS ORTHORECTIFIED IMAGERY RESOLUTION 50 CENTIMETRES 6 DEGREE UTM, NAD83 CSRS, RECORDED AS FB 38038 CLSR.

THE LIMIT OF NIPIGON BAY OF LAKE SUPERIOR AS SHOWN ON THIS PLAN HAS BEEN ESTABLISHED BY SURVEY AND BY IDENTIFYING THE WATER'S EDGE AS THE BEST AVAILABLE EVIDENCE OF THIS LIMIT. ANY CHANGE IN THE POSITION OF THIS LIMIT AS SHOWN ON ADJOINING PLANS OF SURVEY APPEARS TO BE THE RESULT OF NORMAL AND GRADUAL FLUCTUATIONS IN THIS LIMIT.

ELEVATIONS SHOWN HEREON ARE GEODETIC (CVD28) AND ARE REFERRED TO BENCHMARK 00119830199 HAVING A PUBLISHED ELEVATION OF 194.340m

ALL PART LIMITS WHICH ARE NOT MONUMENTED LIE WITHIN NIPIGON BAY OF LAKE SUPERIOR

FOR BEARING COMPARISONS, A ROTATION OF 0°38'45" CLOCKWISE WAS APPLIED TO BEARINGS ON PLANS 55R-10959 AND 55R-10300 TO CONVERT TO GRID BEARINGS.
A ROTATION OF 0°38'00" CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN OF SURVEY OF WATER LOT JK 206, WATER LOT JK 207 AND WATER LOT FRONTING LOT 2, CONCESSION 1.
A ROTATION OF [illegible] CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN 55R-10830.
A ROTATION OF 0°38'00" CLOCKWISE WAS APPLIED TO BEARINGS ON PLAN 55R-1869 AND PLAN OF WATER LOT PP-728.

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT AND THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 27th DAY OF OCTOBER, 2009
3. THIS PLAN AND FIELD NOTES WAS PREPARED FROM AN ACTUAL SURVEY PERFORMED UNDER MY PERSONAL SUPERVISION AND I WAS PRESENT ON THE SITE DURING THE PROGRESS OF THE SURVEY.

November 20, 2009 — DATE

Paul J. Gregoire (signature)
PAUL J. GREGOIRE
ONTARIO LAND SURVEYOR
CANADA LANDS SURVEYOR

MMM Geomatics Ontario Limited — Ontario Land Surveyors	Drawing Number: 2009345-0003
100 Commerce Valley Drive West, Thornhill, Ontario, L3T 0A1	
Ph (905) 882-4211 Fax 905-882-7275 email geomatics@mmm.ca	
Drawn: [illegible] — Eng By: DHBRDO — Chk'd by: PJG	
Job Number: 2009345-000-000 — File Name: 0934579-03.dwg	

CURRENT REVIEW: — FILE — PLAN 1 OF 1

Waste Water Treatment Plant Upgrade
Township of Red Rock

PUBLIC CONSULTATION CENTRE

Red Rock Recreation Centre
19 Brompton Road, Red Rock
Wednesday, December 5th, 2012
4:00 PM to 7:00 PM

COMMENT SHEET

General Comments

Your comments are appreciated. Please comment on any aspect of the project which you consider to be important and drop your completed comment sheet in the box provided. Comments and information regarding this study are being collected to assist the Township of Red Rock, and to meet the requirements of the Municipal Class Environmental Assessment. If you are unable to respond at this time, please submit your comments by **January 11th, 2013** to:

Kathy Bemben, P. Eng., Project Manager
Engineering Northwest Ltd. (A division of Hatch Mott MacDonald)
301-200 S. Syndicate Ave.
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kathy.bemben@hatchmott.com

COMMENTS: ① I cant believe the town still intends to treat all the groundwater and rain water from peoples ~~roof~~ roofs.

② Why at the March 2012 was it stated there would be no scheduled public meetings on this project.

[redacted]

Waste Water Treatment Plant Upgrade
Township of Red Rock

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E-mail: kathy.bemben@hatchmott.com

COMMENTS:

With Same "System" as Nipigon the RAP AOC will have no problem.

Using the existing site should speed some parts of the process up.

Good Luck

Waste Water Treatment Plant Upgrade
Township of Red Rock

(1)

PUBLIC CONSULTATION CENTRE

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Wednesday, December 5th, 2012
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Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kathy.bemben@hatchmott.com

COMMENTS: The township withdrew the initial Notice of Completion of the Class EA to complete additional studies. What additional studies were completed and to what end?

Why was the "Lagoon Solution" dropped and what additional studies have you conducted to justify this turn of events?

Are the Metis and First Nations being consulted and have you considered their preferred option and their point of view?

Is this new option better than the technology currently in use with regard to effluent quality/composition?

How did capital costs for various solutions were cut in half between the initial public meetings and why was the EVC

cont on page 2.

(2)

Waste Water Treatment Plant Upgrade
Township of Red Rock

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Engineering Northwest Ltd. (A division of Hatch Mott MacDonald)
301-200 S. Syndicate Ave.
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kathy.bemben@hatchmott.com

Cont.

COMMENTS:

not cut in half? How were these calculations made? What happens if these estimates are wrong? Who is liable for the errors and does Town Council know that they are responsible for shortfalls?

Waste Water Treatment Plant Upgrade
Township of Red Rock

PUBLIC CONSULTATION CENTRE

Red Rock Recreation Centre
19 Brompton Road, Red Rock
Wednesday, December 5th, 2012
4:00 PM to 7:00 PM

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301-200 S. Syndicate Ave.
Thunder Bay, ON P7E 1C9
Telephone (807) 623-3449 ext 225
E-mail: kathy.bemben@hatchmott.com

COMMENTS:

CHECK WATER TABLE; (IE) DIGGING DOWN

IS IT POSSIBLE TO SEPARATE SANITARY SEWERS FROM STORM SEWERS

Ministry of Aboriginal Affairs

160 Bloor St. East, 9th Floor
Toronto, ON M7A 2E6
Tel: (416) 326-4740
Fax: (416) 325-1066
www.aboriginalaffairs.gov.on.ca

Ministère des Affaires Autochtones

160, rue Bloor Est, 9e étage
Toronto ON M7A 2E6
Tél. : (416) 326-4740
Téléc. : (416) 325-1066
www.aboriginalaffairs.gov.on.ca

Ontario

Reference: 41

January 25, 2013

Kathy Bemben, P. Eng.
Project Manager
200 S. Syndicate Avenue, Suite 301
Thunder Bay, ON P7E 1C9

Re: Public Consultation Centre #3 – Open House
Municipal Class Environmental Assessment
Red Rock Waste Water Treatment Plant Upgrades

Dear Kathy Bemben:

Thank you for informing the Ministry of Aboriginal Affairs (MAA) of your project. Please note that MAA treats all letters, emails, general notices, etc. about a project as a request for information about which Aboriginal communities may have rights or interests in the project area.

As a member of the government review team, the Ministry of Aboriginal Affairs (MAA) identifies First Nation and Métis communities who may have the following interests in the area of your project:

- reserves;
- land claims or claims in litigation against Ontario;
- existing or asserted Aboriginal or treaty rights, such as harvesting rights; or
- an interest in the area of the project.

MAA is not the approval or regulatory authority for your project, and receives very limited information about projects in the early stages of their development. In circumstances where a Crown-approved project may negatively impact a claimed Aboriginal or treaty right, the Crown may have a duty to consult the Aboriginal community advancing the claim. The Crown often delegates procedural aspects of its duty to consult to proponents. Please note that the information in this letter should not be relied on as advice about whether the Crown owes a duty to consult in respect of your project, or what consultation may be appropriate. Should you have any questions about your consultation obligations, please contact the appropriate ministry.

You should be aware that many First Nations and/or Métis communities either have or assert rights to hunt and fish in their traditional territories. For First Nations, these territories typically include lands and waters outside of their reserves.

In some instances, project work may impact aboriginal archaeological resources. If any Aboriginal archaeological resources could be impacted by your project, you should contact your regulating or approving Ministry to inquire about whether any additional Aboriginal communities should be contacted. Aboriginal communities with an interest in archaeological resources may include communities who are not presently located in the vicinity of the proposed project.

With respect to your project, and based on the brief materials you have provided, we can advise that the project appears to be located in an area where First Nations may have existing or asserted rights or claims in Ontario's land claims process or litigation, that could be impacted by your project. Contact information is below:

Biinjitiwaabik Zaaging Anishinaabek (Rocky Bay) General Delivery MACDIARMID, Ontario P0T 2B0	Chief Bart Hardy (807) 885-3401 (Fax) 885-1218 chiefandcouncil@rockybayfn.ca
Bingwi Neyaashi Anishinaabek (Sand Point) 146 Court Street South THUNDER BAY, Ontario P7B 2X6	Chief Paul Gladu (807) 623-2724 (Fax) 623-2764 paulgladu@hotmail.com

For your information, MAA is aware of Métis communities that have asserted rights near your project. Contact information is below:

Thunder Bay Métis Council 226 May Street South, Thunder Bay, ON, P7E 1B4	Wendy Landry, President (807) 346-9330 e-mail: landry@tbaytel.net
Red Sky Métis Independent Nation 406 East Victoria Ave. Thunder Bay, Ontario P7C 1A5	(807) 623-4635 (Fax) 623-9331 Email: rsmin@tbaytel.net

Please copy any correspondence to Mattawa Interim Métis Council and North Bay Métis Council to the Métis Nation of Ontario. Contact information is below:

Métis Nation of Ontario Head Office 500 Old St. Patrick Street, Unit D Ottawa, Ontario, K1N 9G4	Métis Consultation Unit Fax: (613) 725-4225

The information upon which the above comments are based is subject to change. First Nation or Métis communities can make claims at any time, and other developments can occur that could result in additional communities being affected by or interested in your undertaking.

Through Aboriginal Affairs and Northern Development (AANDC), the Government of Canada sometimes receives claims that Ontario does not receive, or with which Ontario does not become involved. AANDC's Consultation and Accommodation Unit (CAU) established a "single window" to respond to requests for baseline information held by AANDC on established or potential Aboriginal Treaty and rights. To request information from the Ontario Subject Matter Expert send an email to: UCA-CAU@aadnc-aandc.gc.ca

Additional details about your project or changes to it that suggest impacts beyond what you have provided to date may necessitate further consideration of which Aboriginal communities may be affected by or interested in your undertaking. If you think that further consideration may be required, please bring your inquiry to whatever government body oversees the regulatory process for your project. MAA does not wish to be kept informed of the progress of the project; please be sure to remove MAA from the mailing list.

Yours truly,

Wendy Cornet
Manager, Consultation Unit
Aboriginal Relations and Ministry Partnerships Division

Affaires indiennes et du Nord Canada
Indian and Northern Affairs Canada

www.ainc.gc.ca
www.inac.gc.ca

Votre référence - Your file

Notre référence - Our file

Marc-André Millaire
Litigation Team Leader
Litigation Management and Resolution Branch
Aboriginal Affairs and Northern Development Canada

February 4, 2013

SUBJECT: Redirecting correspondence to the Consultation and Accomodation Unit

Dear Sir or Madam,

Recently, your organization has sent correspondence to Mr. Franlin Roy, or Mr. Marc-André Millaire at the Litigation Management and Resolution Branch of Aboriginal Affairs and Northern Development Canada regarding notices of public consultation or other land management notifications which may have aboriginal interests.

The purpose of this letter is to request that you please redirect any future such correspondence to the following organisation which is now responsible for responding to such correspondence on behalf Aboriginal Affairs and Northern Development Canada:

Consultation and Accomodation Unit
Aboriginal Affairs and Northern Development Canada
10 Wellington Street
Gatineau, Quebec
K1A 0H4
E:mail: CAU-UCA@aadnc-aandc.gc.ca

We kindly request that you update your contact list and please remove the names of Mr. Franklin Roy (recently retired) and of Mr. Marc-André Millaire.

Thank you very much,

Marc-André Millaire
Litigation Team Leader

Canada

Appendix B2 – Part II Order Request & Correspondence

NORTHERN WATERTEK CORPORATION
115 Deerfox Drive,
OTTAWA, ON., K2J 4W4,
613-255 2890 www.watertek.ca

April 27, 2012

Minister of the Environment
Environmental Assessment and Approvals Branch
2 St. Clair Ave West, Floor 12A
Toronto, Ontario.
M4V-1L5

Dear Minister,

RE: Part II order request for a Class EA undertaking by the Township of Red Rock.

The Township of Red Rock initiated a Schedule C Municipal Class Environmental Assessment to upgrade the Red Rock Wastewater Treatment Plant and posted a Notice of Completion on April 4, 2012. I object to the process and conclusions in the ESR for this Municipal Class EA undertaking.

I was an active participant in this current Class EA undertaking, attending meetings, providing information to various stakeholders, and answering questions from the consultants. Information that I provided during the process was subsequently mis-represented at public meetings, to Council and in the ESR and questions I asked were avoided and are still unanswered. I particularly find the evaluation process to select the preferred alternative to be more magic than science since no quantitative scoring system was ever proposed to select among the alternatives.

My specific concerns with the process include:

1. The complete lack of an assimilative capacity study of the proposed receivers, i.e. Nipigon Bay or North Trout Creek. The Class EA process is an environmental approval process in contrast to the subsequent Certificate of Approval process, which is an engineering approval. It is essential that the public and all stakeholders be given the opportunity to express the environmental values they desire/require to support their community, be provided with quantitative information on the state of the current environment in terms that they understand, and be given an estimation of any surplus environmental capacity to assimilate additional waste loads from proposed wastewater treatment systems. Aboriginal Consultation Committees and residents commented

that they wished to have no discharge of wastewaters to the environment (Appendix B), yet no assessment was provided in the ESR to show the varying costs of wastewater treatment from the minimum treatment level mandated by MOE (Policy F5-5) to a no discharge scenario despite the fact that a no discharge system (the EVC process) was evaluated.

The residents cannot make an informed decision if they are not provided with the relationship between costs for varying levels of treatment and effects in environmental quality that will result. While the ESR refers to a March 2010 letter in Appendix B from MOE that provides effluent criteria for the proposed undertaking, no such letter was included in Appendix B. Consequently the environmental data and rationale for the proposed effluent criteria are unknown. Thus it appears that neither the environmental values of local residents nor the environmental quality of the local receivers were considered in establishing the effluent criteria for this undertaking.

This is contrary to the Statement of Environmental Values of the MOE as contained in the Environmental Bill of Rights, which clearly states that the MOE will take an ecosystem approach for all decision, permits and approvals. The consultants simply refer to MOE Policy F5-5 that provides the minimum level of treatment for sewage acceptable to the MOE. But this policy does not provide for any bacterial disinfection, for restoring or maintaining specific environmental values, for the recognition of Nipigon Bay as an Area of Concern, nor does it consider specific compounds such as nitrate, which can affect local cold water fish populations.

The Canadian Council of Resource and Environment Ministers (CCREM) recommends a water quality guideline for nitrate-N of about 3 mg/L, but the effluent from the proposed facility will likely discharge nitrate at a much greater concentration to the environment. Again the ESR provides no information on nitrate concentrations and even suggests that Parks Canada will simply move the boundary of the new National Marine Conservation Area to facilitate the outfall from the treatment plant.

There is no assessment of the effluent on this new marine conservation area. Amazingly it is unclear in the ESR that there will be any environmental benefits from the expenditure of $5-9 million dollars for this undertaking. Possibly there are no environmental benefits for minimally treated sewage discharged to the bay, but great environmental benefits for a no discharge system which would cost more money.

However, it was never ascertained if the local residents were willing to pay more to gain specific environmental benefits. If there are no measurable benefits to the public with any of the alternatives, why force the public to spend this money?

2. The ESR fails to provide the quantitative evaluation criteria that were used to decide the preferred alterative among the various options. It is essential that natural, social, and economic environmental criteria, along with any technical criteria, be clearly identified to all stakeholders, preferably at the first public meeting, and a scoring system be given so that the public can understand how the alternatives are to be evaluated (page A-68 of MEA Class EA document June 2000). Scoring for the three components of the environment should be similar (i.e. balanced) and all criteria need to be considered at the same time and not in some arbitrary order. No such scoring system is evident in the ESR, and it is unclear how the

preferred alternative scored higher than the alternatives. Consequently the conclusions of the ESR are invalid.

3. The ESR does not outline an environmental monitoring program to document changes caused by the undertaking (page A-70 of MEA Class EA document June 2000). Consequently there will be no way to measure whether the expenditure of million of dollars has benefited the environment. Clearly the inclusion for future treatment systems such as UV disinfection within the preferred alternative suggests that further upgrades will be required, at additional cost to the public and again with no means to measure environmental benefits.

This appears to be piece-meal of the project (page A-25 of the MEA Class EA document June 2000) to decrease the cost of the preferred alternative relative to other options. Only the EVC alternative guarantees highly restrictive effluent criteria (essentially tertiary quality with disinfection) and a fixed cost to the public.

The preferred alternative has varied from $9-10 million at the first public meeting to just under $6 million in the final ESR with no documentation around this change in costs and still no guarantee that this is the final price to the public.

4. Finally, ENL has told Council that the preferred alternative will take 2.5 – 3 years to complete, which extends beyond the December 2013 end date for government grants for this undertaking. Consequently, the township may be saddled with all costs after the grants expiry date. Meanwhile, it appears that other alternatives can still be built within the window of the grants and thus all costs would be eligible for government grants. This was not clearly indicated in the ESR nor used to evaluate the various alternatives.

Thus to be clear, I am requesting a Part II Order, so that a full review of environmental, economic, and social issues surrounding this sewage treatment upgrade are conducted with full public input and information transparency for the benefit of all.

Yours sincerely,
NORTHERN WATERTEK CORPORATION,

Jeffrey A. White P. Eng.,
President and CEO

cc. Township of Red Rock/Pristanski/Nelson/Council
ENL/Currie/Bemben

Ministry of the Environment
Environmental Approvals Branch
2 St. Clair Avenue West
Floor 12A
Toronto ON M4V 1L5
Tel.: 416 314-8001
Fax: 416 314-8452

Ministère de l'Environnement
Direction des autorisations environnementales
2, avenue St. Clair Ouest
Étage 12A
Toronto ON M4V 1L5
Tél. : 416 314-8001
Téléc. : 416 314-8452

MAY - 7 2012

Ontario

ENV1283MC-2012-1290

MAY 0 2 2012

Mr. Jeffrey White
Northern Watertek Corporation
President & CEO
115 Deerfox Drive
Ottawa ON K2J 4W4

Dear Mr. White:

Thank you for your April 27, 2012 correspondence to the Minister of the Environment (Minister) in which you request that the Township of Red Rock (Township) be required to prepare an individual environmental assessment (EA) under the Environmental Assessment Act (EAA) for the proposed Waste Water Treatment Plant Upgrade (Project).

It is the understanding of this ministry that the Project is being planned as a Schedule C project under the Municipal Engineers Association's Municipal Class Environmental Assessment (Class EA). The Class EA is an approved planning process that proponents must follow for projects of this type in order to obtain authorization to proceed with the project under the EAA. Despite this process, the Class EA includes a provision whereby any member of the public who has unresolved concerns with a proposed project can request that the Minister require the proponent of the project to prepare an individual EA. The Minister's requirement to prepare an individual EA is referred to by the Class EA as a Part II Order request.

Staff at this ministry will review the issues and concerns you have cited as reasons for which an individual EA should be prepared. This information will be considered by the Minister when making a decision about the request. Where required, ministry technical staff and staff at other agencies may also review the matter. On the basis of this review and other matters required to be considered by the Minister under the EAA, the Minister will make a final decision about whether or not to require an individual EA for the Project. You will be notified in writing of the Minister's decision once it has been made.

Please note that personal and other information in your letter such as name, address, and telephone number and your concerns with this Project will form a part of the public record on this matter. If you wish this information to be excluded from the public file, the Environmental Approvals Branch must be advised. Notwithstanding the above, this information may still be obtained by members of the public if the ministry is required to disclose it under the Freedom of Information and Protection of Privacy Act.

If you have any questions regarding the ministry's review of your request, please call Mr. Adam Sanzo, Project Evaluator of the Project Review Unit, at 416-314-8229.

Thank you for taking the time to share your concerns regarding this Project.

Yours sincerely,

George Karlos
Manager, Environmental Assessment Services
Environmental Approvals Branch

c: Kathy Bemben, Engineering Northwest Ltd.
EA File 02-03- Red Rock Waste Water Treatment Plant Upgrade

APPENDIX B2 PART II ORDER REQUEST SUBMITTED FOLLOWING MARCH 2012 NOTICE OF COMPLETION SUMMARY OF CONCERNS AND RESPONSES

The following table represents a summary of concerns raised in the Part II Order Request dated April 27, 2012, as submitted by Northern Watertek Corporation. The concerns raised are pertaining to the March 2012 ESR. The "Proponent Response" indicated information that was provided to the MOE during their review of the Part II Order Request.

Summary of Issues/Concerns	Proponent Response
1) **The complete lack of an assimilative capacity study of the proposed receivers, i.e. Nipigon Bay or North Trout Creek**	The effluent criteria for discharge to Nipigon Bay was provided by the local MOE office, thus an assimilative capacity study of Nipigon Bay is not required. For discharges to North Trout Creek the MOE indicated that additional work would likely be needed to determine whether more stringent receiver based limits would be required. See Correspondence from MOE dated March 9, 2010 and correspondence dated August 16, 2011 (located in Appendix B of the ESR). Also see discussion in section 2.3.2.1 and 2.6.5 of the ESR.
2) **When is an assimilative capacity assessment required?**	Effluent criteria (for discharge to Nipigon Bay) was provided by the local MOE office, therefore an assimilative capacity assessment is not required, they have enough information on the receiving water body to set the effluent criteria. Conversely, for an effluent discharge to North Trout creek, the MOE indicated that additional work would be required to determine the effluent criteria for this receiver as more (see Correspondence from MOE dated March 9, 2010 and correspondence dated August 16, 2011 located in Appendix B of the ESR)
3) **Aboriginal Consultation Committees and residents commented that they wished to have no discharge of wastewaters to the environment, yet no assessment was provided in the ESR to show the varying costs of wastewater treatment from the minimum treatment level mandated by MOE (Policy F5-5) to a no discharge scenario despite the fact**	The Métis Nation of Ontario (MNO) initially indicated they had no concerns with the project, see correspondence dated April 30, 2010, June 7, 16 and 24, 2010. Subsequently, comments were received from the Métis Nation of Ontario (MNO) as a result of communications and meetings held with the MNO Consultation Committee on January 5, 2012 and February 9, 2012. No communications or comments were received from any other Aboriginal Consultation Committees. The concerns expressed by the MNO (letter of February 13, 2012 regarding discharge to the watershed were addressed in a letter to the MNO by the Township of Red Rock dated March 1, 2012, which included supplemental information prepared by ENL dated March 1, 2012. The final correspondence received from the MNO Committee (letter of March 27, 2012) acknowledged that the proposed project meets the basic requirements of all involved. The MNO also indicated they feel the Township of Red Rock should advocate for an optional level of zero discharge, however they

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that a no discharge system (the EVC process) was evaluated	acknowledge that the final decision lies with the Municipality. The MNO offered "good luck with your project". References to MNO consultation are included on Table 1.2 and 1.4 of the ESR, and copies of correspondence, and minutes of meetings are included in Appendix B. The March 27, 2012 letter was received after the ESR was published, but is appended to this report. Capital and operating cost estimates for tertiary filtration processes that could be added to the cost of the aerated lagoon or RBC secondary treatment options were provided to the MNO in ENL's March 1, 2012 letter and were also presented in Section 4.6 of the ESR. Comments were received from individuals following PCC #2 (October 26, 2011) that indicated support for innovative technology that prevents hormones, cysts, etc. from entering the lake, and support for zero discharge to the lake. References and responses to the comments are included in table 1.3 of the ESR. Table 3.2 of the ESR Document contains a comparison of the costs of the alternatives assessed, including the costs of the EVC process provided by Northern Watertek (NWT). The costs were also presented at the public consultation centre's. The costs for the EVC system were provided by NWT and at their request have not been adjusted or modified.
4) **The residents cannot make an informed decision if they are not provided with the relationship between costs for varying levels of treatment and effects in environmental quality that will result.**	Table 3.3 of the ESR provides a comparative evaluation of the alternatives considered, including an analysis of environmental and economic criteria. It is acknowledged that the EVC process will have a lesser impact to surface water as a result of effluent application to land, but will have a higher impact to ground water. The provision of tertiary treatment was discussed as a design alternative in Section 4.6 of the ESR, and will be incorporated into the design as a future provision.
5) **The ESR refers to a March 2010 letter in Appendix B from MOE that**	The March 2010 MOE correspondence referred to was missing in the published ESR document. However, the information contained in this correspondence was included in the text of the ESR as

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provides effluent criteria for the proposed undertaking, no such letter was included in Appendix B. Consequently the environmental data and rationale for the proposed effluent criteria are unknown.	Section 2.6.5. Additionally, Section 2.6.5 of the ESR also references subsequent correspondence with the MOE relating to effluent criteria, dated August 12 & 16, 2011, which was included in Appendix B.
6) **Neither the environmental values of local residents nor the environmental quality of the local receivers were considered in establishing the effluent criteria for this undertaking.**	The effluent criteria for discharge to Nipigon Bay was provided by the local MOE office (see ESR Section 2.6.5). The environmental quality of the Bay would have been considered in the MOE's determination of the effluent criteria. Additionally, the Remedial Action Plan (RAP) for Nipigon Bay requires secondary treatment as one of the criteria to de-list the bay as an Area of Concern (AOC). As noted in correspondence from the MOE dated August 8 2011, it is acknowledged that additional work to determine if more stringent receiver based limits would be required for discharge to Trout Creek. This is stated in the ESR, Section 2.6.5. It should also be noted that the proposed Environment Canada Wastewater Systems Effluent regulation made under the Fisheries Act contains similar effluent criteria to that provided by the MOE for discharge to Nipigon Bay. See Section 2.5 of the ESR. Additionally, the proposed regulation states the following: *These effluent quality standards are indicative of a secondary level of treatment, or equivalent. Such a level of treatment removes over 95% of the total mass of conventional pollutants in wastewater (i.e. BOD matter, suspended solids and nutrients). Significant amounts of non-conventional pollutants and bacteria that may be present are also removed through such treatment.*
7) **MOE Policy F5-5 does not provide for any bacterial disinfection for restoring or maintaining specific environmental values or for recognition of Nipigon Bay as an Area of Concern.**	The ESR references Guideline F-5 and Procedure F-5-1. MOE Policy F5-5 outlines treatment requirements for municipal and private combined and partially separated sewer systems. Guideline F-5 Section 7.0 indicates that effluent disinfection requirements are contained in Procedure F-5-4. Procedure F-5-4 which is the governing procedure for the project, indicates that all municipals sewage works discharging to surface waters require disinfection, except where exempted. Section 14.1.3 of the "MOE Design Guidelines for Sewage Works 2008" states *...lagoons with two or more cells in series do not normally require disinfection unless there are risks to public contact of the*

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	effluent downstream of the plant. This is referenced in the ESR, Section 4.7 Additionally, bacterial contamination of Nipigon Bay is not one of the impairments listed in the Remedial Action Plan (RAP) as a reason for Nipigon Bay being listed as an Area of Concern (AOC) or for de-listing Nipigon Bay as an AOC. See Section 1.1 of the ESR.
8) **MOE Policy F5-5 does not consider specific compounds such as nitrate**	Correct, MOE policy F-5 does not consider specific compounds such as nitrate. F-5-5 deals specifically with combined sewage treatment and relaxed effluent criteria when wet weather flows exceed a combined sewage treatment facilities design hydraulic capacity. This type of solution was not considered on this project and the plant is to be designed to treat the recorded wet weather flows. MOE Policy F-5-5 allows for a relaxed effluent criteria to be approved for wet weather flows. On this project, relaxed effluent criteria was not requested or granted by MOE for wet weather flows. Past experience has shown that MOE does not approve relaxed effluent criteria for wet weather flows for small treatment plants such as this one. Having a second treatment flow system to deal with wet weather flows increases plant and operation complexity and ultimately leads to lower total levels of treatment of the entire waste stream. The proposed plant will be designed to treat all sewage flows - average daily flows as well as peak wet weather flows - to the same level of treatment. The treatment system chosen for this project will meet the effluent criteria required at all flow rates. The rationale of Policy F-5 which is probably being referred to in Mr. White's statement is outlined below. This project followed this rationale and MOE set the effluent criteria necessary for the project to follow. The Class EA considered only the effluent criteria set out by the Ministry of the Environment. **Excerpt** from **Policy 5-5; 1.0 Rationale** Effluent requirements within the Province of Ontario are determined under the provisions of Procedure B-1-1: "Water Management-- Guidelines and Procedures of the Ministry of Environment and Energy (The "Blue Book")". In accordance with the procedures outlined in that publication, effluent requirements are established on a case-by-case basis considering the characteristics of the receiving water body, as well as Federal and Provincial effluent regulations and procedures, where applicable. For discharges from municipal and private sewage treatment works, Provincial jurisdiction applies, except for Federal facilities. Federal facilities are covered by the effluent guidelines, "Guidelines for

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	Effluent Quality and Wastewater Treatment at Federal Establishments". Normally, the Federal government consults with the Province to ensure that the effluent from Federal plants will be consistent with Provincial policies. Guideline F-5 takes the approach that all sewage treatment works shall provide secondary treatment or equivalent as the "normal" level of treatment, unless individual receiving water assessment studies indicate the need for higher levels of treatment. In setting the "normal" level of treatment as secondary, various factors were considered, including: minimization of adverse health-related and environmental effects, aesthetic nuisance and toxic effects of effluent discharges from heavily populated areas to rivers and streams or to littoral zones of lakes where intensive water use and re-use occur; minimization of potential interference of effluent discharges with other water uses; possibility of more stringent future phosphorus removal requirements and the capability of secondary sewage treatment processes to be upgraded to meet such requirements; relatively low additional cost and significant additional benefits of secondary treatment over primary treatment with respect to removal of conventional contaminants and, potentially, the removal of hazardous trace organics.
9) CCREM recommends a guideline for nitrate-N of 3 mg/L	The CCREM recommended guideline is 3 mg/L. This recommendation is the same for both surface (Class EA recommended method of disposal) and subsurface water disposal methods (NWT's recommended method) and accordingly both methods of effluent disposal would be considered similarly if this was a required effluent criteria. MOE have not placed an effluent criteria for Nitrate on this project and accordingly the project committee did not expand the project criteria beyond what was specified and required by the regulatory agency. Reference also the response comment 7 above with respect to MOE requirements.
10) ESR provides no information on nitrate concentrations	Correct the MOE have not placed an effluent criteria for Nitrate. The project committee did not expand the project criteria beyond what was specified and required by the regulatory agency. Reference response the response comment 7 and 8 above with respect to MOE requirements.
11) The ESR suggests that Parks Canada will simply move the boundary of the new National Marine Conservation Area to facilitate the outfall from the	Parks Canada has been consulted with from the outset of the project with respect to the National Marine Conservation Area (NMCA). The NMCA boundary has yet to be legislated and Parks Canada has agreed that the boundary will be re-surveyed to accommodate an outfall sewer from the new sewage treatment works in Red Rock. See Correspondence with Doug Yurick dated December 13, 2011, February 23 & 29, 2012 enclosed as Appendix B to the ESR.

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treatment plant. There is no assessment of the effluent on this new marine conservation area	Parks Canada has not expressed any concern regarding effluent discharge impacts to the NMCA as the discharge will not occur within the NMCA boundary.
12) The ESR fails to provide the quantitative evaluation criteria that were used to decide the preferred alternative among the various options	The evaluation criteria used in the assessment of the alternatives were identified to the public at PCC#1 (refer to displays in Appendix C of the ESR) and were identified in the ESR in Section 3.3.1. The MEA Class EA, October 2000 as amended in 2007 indicates that "the decision making process, and any ranking procedures employed, should be described", refer to Section A.4.2.1, chapter 3 of the MEA document. The rationale for the selection of the preferred alternative is outlined in Section 3.3.3 of the ESR. No concerns were expressed by the public regarding the evaluation criteria at either of the PCC's.
13) It is unclear how the preferred alternative scored higher than the alternatives. Consequently the conclusions of the ESR are invalid.	As noted above, a quantitative 'scoring' analysis was not completed to select the preferred alternative. However, all of the screening criteria presented in Table 3.3 of the ESR and discussed in Section 3, were taken into account to select the preferred alternative. The reasons for selecting the preferred solution of upgrading/re-using the existing mill lagoon are presented in Section 3.3.3 of the ESR.
14) The ESR does not outline an environmental monitoring program to document changes caused by the undertaking (page A-70 of MEA Class EA document June 2000). There will be no way to measure whether the expenditure of millions of dollars has benefited the environment.	As noted in Section 1.4 of the ESR, this study was completed in accordance with the Municipal Class Environmental Assessment (Class EA) document dated October 2000, as amended in 2007 and not a June 2000 version. We acknowledge that there is not much detail in the ESR with respect to monitoring during and after construction. However, much of this detailed information will not be available until the design and approvals process is underway. A detailed Operations and Maintenance Manual will be prepared which will summarize the required regulatory and other monitoring for the facility. Please see the monitoring activities discussed below: **<u>During Construction</u>** • A new treatment facility will be constructed; therefore the impact on the existing treatment operations will be minimal. It is anticipated that the existing monitoring practices will be maintained until the existing plant is fully decommissioned.

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	• There will be a number of other monitoring requirements associated with construction activities as follows: o Dewatering the mill lagoons will be necessary to construct berms in the existing lagoon. Previous conversations with the Ministry suggest that the liquid can be pumped out to the lake but a monitoring program will need to be put into place. It is anticipated that these details will be discussed further with the Ministry during detailed design/construction. o De-sludging the mill lagoons will be necessary to construct berms within the existing lagoon. Preliminary conversations with the Ministry suggest that the sludge can be placed at the existing landfill on the mill site. It is anticipated that sampling and analysis of the sludge to quantify the amount and composition will be carried out. A date for this sampling has not been established. It is anticipated that these details will be reviewed further with the Ministry during the detailed design of the project.
	Post Construction • Post construction monitoring will be completed, at a minimum, in accordance with the Certificate of Approval for the facility and associated legislation (i.e. OWRA). The quality of raw sewage and treated effluent will be monitored on an ongoing basis. Effluent sampling frequency and methodology must conform with the Certificate of Approval issued by the MOE for the new treatment facility. It is anticipated that the following effluent parameters will be monitored as per the effluent criteria provided by the Ministry: o BOD o Total Suspended Solids o Total Phosphorus o Toxicity • Flow volumes received at and discharged from the new treatment facility will be monitored on

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	an ongoing basis; • Plant staff will follow-up on any complaints and monitor and nuisance impacts; • The Township will continue to keep records of all monitoring/sampling results. These records will be made available to the MOE upon request. A summary report will be compiled on an annual basis and available for public review. To the best of our knowledge, the Remedial Action Plan (RAP) for Nipigon Bay does not require any specific testing or monitoring to be completed during or after construction.
15) The inclusion of future treatment systems such as UV disinfection within the preferred alternative suggests that further upgrades will be required, at additional cost to the public and with no means to measure environmental benefits.	As noted in Section 4.7 of the ESR and Section 14.1.3 of the "MOE Design Guidelines for Sewage Works 2008", *...lagoons with two or more cells in series do not normally require disinfection unless there are risks to public contact of the effluent downstream of the plant.* The installation of UV disinfection at a later date (if required) could result in additional costs to the Township, however, provision will be made for installation of such equipment in the current design to minimize costs should it be required in the future. The capital cost of making this provision is fully funded under this project. If this is implemented in the future, a monitoring program will be developed in accordance with MOE requirements. Provisions for future UV disinfection were incorporated into the project as a result of responses received from the public to accommodate possible future regulatory requirements changes. As such, during design of the project, it is proposed that space on the site will be designated for the future installation of UV disinfection equipment, allowing it to be easily adapted into the existing works. Future provision for UV installation would include 2 tees that would be capped and 3 isolation valves on the outfall pipe. The Tees would be positioned far enough from each other that the UV channels and control structure could be installed without having to take the effluent pipe off line. Once the UV system is installed, tested, and commissioned the valve on the main line would be closed. The valves on the tees would be opened so flow would then bypass a length of pipe on the effluent outfall and flow through the UV system joining back to the outfall further downstream.

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	Current project costs would include the tees and valves. Installing these items will create the ability to install the UV system in the future without affecting anything on the existing plant. This would allow the plant to operate normally while the UV system is installed saving all the costs of temporary pumping around the UV construction. Additionally since the requirement to disinfect and the level of disinfection criteria has not been established yet there are other options such as chlorination de-chlorination process' etc. that may also be considered. These would also be able to be installed in the area allowed for future disinfection. The complete disinfection system would be all future costs.
16) There appears to be piece meal of the project to decrease the cost of the preferred alternative (page A-25 of the MEA Class EA Document June 2000). The piecemeal approach will decrease the cost of the preferred alternative relative to other options.	As noted in Section 1.4 of the ESR, this study was completed in accordance with the Municipal Class Environmental Assessment (Class EA) document dated October 2000, as amended in 2007 and not a June 2000 version. The project was planned under the Class EA as a Schedule 'C' activity, and included all component parts of the project. The description of the preferred solution reflects the entire project, as stated in Section 4.10 of the ESR. The project was not broken down or piecemealed, therefore the costs presented reflect the entire project not just component parts or phases. With respect to decrease in project cost, see #16 below.
17) The preferred alternative has varied from $9- 10 million at the first public meeting to just under $6 million in the final ESR with no documentation around this change in costs and no guarantee that this	At the first Public Consultation Centre (PCC) held April 28, 2010, the preferred planning solution presented was to upgrade/expand the existing plant on the existing site, with the new plant capacity of 1,272 m3/d and a cost of approximately $9 million. At this time, the possibility of using the mill lagoons was determined not to be an option due to the potential re-opening of the mill and other factors. See PCC#1 presentation slides enclosed as Appendix C to the ESR for more information.

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is the final price to the public.	After the first draft of the ESR was presented to Council in August 2010, Council requested additional investigation into the EVC© treatment system, and also advised that utilizing the former Red Rock mill lagoons was now a viable alternative as the mill would not be re-opening. These items were investigated further and a refinement in the projected population/flows, was undertaken. This information was presented to the public at the second PCC in October 2011 and subsequently published in the ESR dated March 2012. The preferred solution indicated in the ESR is to utilize the existing Red Rock Mill lagoons with a design capacity of 900 m3/d and a total estimated cost of $5.56 million dollars. The differences in costs presented at PCC#1 and PCC#2 are as a result of a change in the treatment process and location (i.e. mechanical plant on existing site to utilizing the existing mill lagoon) as well as a further refinement in flows/population that was undertaken. Note that the information presented at PCC#1 was based on a design flow of 1272 m3/d, and the design flow was was revised to 900 m3/d prior to PCC#2, which reduced capital as well as operating and maintenance costs. All treatment process alternatives were evaluated based on the 900 m3/d design flow rate as presented at PCC#2. The above is documented in Section 1.3 of the ESR and PCC presentation slides are enclosed in Appendix C of the ESR. Final costs will likely vary as more detailed information is gathered during the detailed design stage and the project is ultimately tendered to receive competitive bids. The costs presented in the ESR are generally for comparative purposes and represent a class C estimate.
18) **The EVC alternative guarantees highly restrictive effluent criteria and a fixed cost to the public.**	All treatment processes that were reviewed as alternatives are required to meet the secondary treatment effluent criteria provided by the MOE at the point of discharge, including the EVC© process. With the exception of the EVC© process, the operation of all other treatment alternatives considered under this project are well known in the Province of Ontario and will be capable of meeting or exceeding the effluent criteria. However, it should be noted that the exact effluent quality/characteristics of any of the alternatives, including the EVC process, cannot be predetermined and therefore have not been compared. There is currently only one operating EVC© process in Ontario at the Village of Westport, thus there is

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	little public operating data or approvals experience in Ontario for this process. A member of the project team visited the Westport installation and determined that if acceptable treatment was provided upstream of the snow making or spray evaporation system, the EVC© process is an acceptable process for the disposal of treated effluent on land. The report concluded that the cost/benefits of the spray irrigation/snow making system should be weighed against effluent discharge to Nipigon Bay given an equal comparison of design flow and period for lifecycle costing. See Section 3.2.8.1 of the ESR. As described in Section 3.2.8. of the ESR, the current proposal submitted by the EVC© process supplier is to design/build/operate an EVC process for 5-years at a cost of $8,979,460. The evaluation of the alternatives is being completed on a 20 year design horizon. The proposal was unsolicited by the Township, and did not undergo a competitive bidding process. Furthermore, the available funding does not apply to operating costs. If the current proposal was accepted there is a possibility that the Township could be responsible for 100% of the costs. The EVC© proposal did not include a detailed breakdown between capital and operating costs which makes it difficult to compare to the other alternatives. The final scope of work was not well defined in the proposal and there may be costs that are not included in the proposal that may have been included in the other alternatives.
19) ENL has told Council that the preferred alternative will take 2.5 - 3 years to complete, which extends beyond the December 2013 end date for government grants for this undertaking. Consequently, the Township may be saddled with all costs after the grants expiry date. This was clearly not indicated in the ESR nor used to evaluate the various alternatives.	We are not aware of the statement regarding 2.5 - 3 years to complete being made to Council by ENL. Government funding for the project is anticipated to be available until at least March 31, 2014. The timelines for design and construction of the preferred alternative would be similar for any of the alternatives reviewed and therefore was not considered as part of the evaluation process. The funding arrangement presently being negotiated is under the Green Infrastructure Fund (GIF), which ends March 31, 2014, any project costs incurred after this date will be the responsibility of the Township. However, there may also be an opportunity to negotiate a funding extension, but this has not yet been confirmed by the funding agency.

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	We confirm that it is still feasible to complete the project by March 31, 2014.
20) **It appears other alternatives can be built within the window of the grants and thus all costs of other alternatives would be eligible for government grants.**	Construction 'windows' were not provided in the ESR for any of the alternatives. It is anticipated that any of the alternatives can be constructed within the required timeframes.
1) **MOE Request August 8, 2012 – request for information with respect to equipment proposals solicited by the Township during the EA process**	The Northern Watertek proposal was unsolicited. The Township has not solicited any competitive proposals/bids from any vendors or suppliers during the EA process. The only contact with vendors/suppliers during the EA process was by the Township's consultants for the purposes of developing cost estimates.