

Appendix H

Teleconference Meeting Minutes

Monitoring Wells Project – Land Use Permit Consultation Teleconference – September 28, 2017

Attendees:

Hamlet of Tulita: SAO Bradley Menacho

Charter Community of Tsiigehtchic: SAO Grant Scott; Conor Egan, Hamlet Foreman

MACA: Jaime D. Goddard, P.Eng., Senior Technical Officer Water & Sanitation

Dillon Consulting: Crystal Sabel, M.Sc., MIT; Linda Li, EIT

The following is a summary of questions and information items raised during the call.

Q1: When are the drilling and sampling operations scheduled?

A1: Drilling for all communities is scheduled for February/March 2018; Sampling is scheduled for July/August 2018.

Q2: Who will provide and install the vehicle gates?

A2: The gates will be supplied and installed by a contractor through our consultant, Dillon Consulting Limited. In the case of Tsiigehtchic, one gate will be installed to control access to all the active sites. There will be no gate installed at the old landfill since it has been capped.

Q3: Where will training take place?

A3: Training will take place at the local community lagoon or landfill while Dillon Consulting is on site during the sampling phase of the project. Each community will have the opportunity to receive onsite training on the newly installed wells. Training sessions will be offered each year.

Q4: Who prepares the site-specific Health and Safety Plan?

A4: The Health and Safety plan will be prepared by the consultant (Dillon).

Q5: Who is applying for the Land Use Permit?

A5: The Land Use Permit application is being prepared by Dillon and MACA and will be submitted by MACA.

Q6: Who is preparing written permission to access the sites?

A6: Most sites are on Commissioner's Land, therefore official permission to access the sites comes from the Lands Department. The Lands Department has given permission in the form of a reserve to MACA on those sites, which is sufficient for the Land Use Permit process. There is also a requirement to consult with the communities for the Land Use Permit. If any community has objections to the project, MACA will make sure any concerns or issues are addressed before proceeding, whether the permit process requires it or not.

Q7: Which drilling company will be doing the work?

A7: Gully Enterprises (Inuvik) in partnership with Clean Harbors Exploration Services (Edmonton) will be doing the drilling work.

Q8: Is Dillon Consulting Limited going to supervise the drilling?

A8: Yes.

Q9: Who from Dillon will be doing the sampling work?

A9: A team of environmental specialists from the Yellowknife office will be doing the sampling work during the summer of 2018.

Q10: Is there a way to check the sludge depth in the sewage lagoon?

A10: Yes, there are many different ways to do this. Generally a "Sludge Judge" could be used to check sludge depth in the lagoon. However, this is not part of the current drilling and groundwater sampling program.

Q11: What type of well will be installed?

A11: A 2" PVC well will be installed at each sampling location, drilled to permafrost or refusal. Each well will be protected with a lockable 6" steel casing. The wells are sealed against surface water intrusion and stick up 2-3 feet above the ground surface.

Q12: If contamination is found, what is the implication for the community? Who will be responsible for the liability associated with contamination at the sites?

A12: For the time being, annual sampling will be paid for under the Environmental Liabilities Fund. If contamination is found, this will be dealt with on a case-by-case basis and will be dependent on the type(s) and amount(s) of contaminants found.

Q13: How close to the sites will the wells be installed?

A13: The wells will be installed around the perimeter of each site within the boundaries of the MACA land reserves. The intent is to have the wells close enough to the sites to detect contaminants being released; however, no wells will be installed within the actual waste piles.

Q14: How will the site be fenced?

A14: Vehicle access gates will be installed at each site that currently does not have a vehicle access gate. The gates can be left open or closed at the discretion of the site operator. The intent is to have the gates available for when it is time to complete final closure of the site. They can also be used if the community chooses to restrict access to the site outside of operating hours. The entire site will not be fenced.

Q15: What parameters will be sampled?

A15: A preliminary list of parameters will be proposed in the sampling plan to be developed by the consultant. This list will be based on parameters required in each community's water licence, as well as typical parameters tested for at landfill sites in other Canadian jurisdictions. The preliminary list is as follows, but may be altered for specific sites during the project:

- Total Dissolved Solids
- Carbonaceous biochemical oxygen demand (CBOD₅)
- Polychlorinated biphenyls (PCBs)
- Fecal coliforms
- Petroleum hydrocarbon fractions F1-F2
- Benzene, toluene, ethylbenzene, and xylenes (BTEX)
- Mercury
- Metals
- Sulphate
- Chloride

- Nitrite
- Nitrate
- Alkalinity
- pH
- Turbidity
- Conductance
- Colour
- Phosphorus
- Hardness
- Total Organic Carbon (TOC)

Q16: How will wells be protected from surface water?

A16: Once the PVC casing is installed in the drilled hole, a layer of sandy material will be placed in the hole around the outside of the well casing. The sand layer will be deep enough to cover slotted screen portion of the well. A layer of bentonite material will then be poured into the hole around the well casing, on top of the sand layer. The bentonite will seal the space between the well casing, the side of the drilled hole and the sand layer to mitigate surface water from infiltrating into the well and affecting the results of the groundwater sampling. The bentonite will fill the hole to the ground surface and then native material will be placed around the base of the well and mounded to promote surface run-off away from the well. It would be helpful to have local works staff comment on well locations if there are known areas of ponded water around the sites.

Q17: Will a copy of the results reports be available to the communities once the sampling is complete?

A18: Each community will receive a copy of the sampling results, a site- specific Sampling Procedures Manual, and long-term sampling plans for their sites upon completion of the project. MACA will be available to answer questions with respect to the results. Future sampling results will also be made available.

Q18: What roles do the Department of Lands and the land and water boards have in the project?

A18: The Department of Lands is currently reviewing MACA's requests for reserves on lands where access for installation of monitoring wells is required. They will be responsible for granting the requested land reserves. The Mackenzie Valley Land and Water Board will be responsible for reviewing the land use permit applications and granting the land use permits as required for installation of monitoring wells. Land use permits are required as the wells will be installed using a drill rig.

Q19: What are the expectations of local community staff with respect to the project?

A19: There are no expectations of local community staff other than staff that have been hired by Dillon to assist with field work tasks such as wildlife monitors, snow/brush clearing and other general labour tasks. Training on collecting groundwater samples at the sites will be provided to interested community members free of charge by Dillon personnel during the field program. Participation in the training is voluntary.

Q20: How many wells will be installed on each site?

A20: For the purposes of comparing proposals, the RFP specified 5 wells for each landfill and 3 for each lagoon. However, the final quantity will be determined by the consultant for each site.

Follow-up information:

The deadline to submit questions or concerns ahead of the Land Use Permit application submittal is **3:00 PM, October 5th, 2017**.

If you were not able to attend the teleconference and would like an individual phone call to address your concerns before the deadline, please email MACA's project manager (below) to arrange a time.

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