



**Mackenzie Valley Land and Water Board**  
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**September 9, 2016 Technical Workshop - Summary Minutes**  
**Bullmoose-Ruth Remediation Project – Indigenous and Northern**  
**Affairs Canada –**  
**Contaminants and Remediation Division (INAC-CARD)**  
**Water Licence and Land Use Permit Applications**  
**(MV2016L8-0004 – MV2016X0013)**

1) Attendees

In Person:

Julian Morse – MVLWB  
Shannon Allerston – MVLWB  
Heather Scott – MVLWB  
Rebecca Chouinard – MVLWB  
Jen Potten - MVLWB

Ron Breadmore – INAC – CARD  
Jessica Wilson – INAC – CARD  
Tawanis Testart – INAC – CARD  
Jessie Hoyt – PWGSC  
David Wilson – Stantec (INAC – CARD Consultant)  
Alison Heslep – INAC- CARD  
Amy Allan – INAC- CARD  
Caitlyn Moore - PWGSC

Rick Walbourne – ENR  
Alex Power – YKDFN  
Shin Shiga – NSMA  
Brian Sundberg – Leaseholder on Campbell Lake  
Devin Penney – INAC Inspector

On the Phone:

Morag McPherson – DFO

2) Project Description and Schedule

- Presentation made by INAC-CARD BMR Team (Available on Registry at:
- R. Breadmore noted that contractor has proposed accelerated schedule, demobilization in March 2019

- Update was given on Archaeological report, Quarry permitting will occur in December
- Plans for LUP will be submitted in the next few weeks
- Maps containing info on site footprints will be provided, INAC will ensure quarries don't cross jurisdiction (Federal/Territorial)
- D. Wilson discussed WL activities, monitoring, update activity schedule from contractor
- S. Shiga asked why NSMA wasn't included in list of stakeholders
  - Noted that NWTMN does not represent NSMA

----- Coffee Break -----

### 3) Water Use

- B. Sundberg raised concern about lack of water around Bullmoose sites, asked what water bodies will be used to source water for project, and whether Campbell Lake will be used.
  - INAC – CARD indicated DFO protocol will be followed, large bodies of water will be used, Campbell lake won't be used for drinking water.
- A discussion took place regarding beaver dams, INAC – CARD indicated that track surveys will take place and such structures, natural drainage will not be impacted by winter road construction.
- H. Scott asked about details related to “black water” (sewage)
  - INAC – CARD provided clarification on how sewage will be treated, and how grey water will be managed on site.
- B. Sundberg asked questions about bullmoose airstrip
  - INAC-CARD provided clarifications about airstrips, discussed airstrips at Bullmoose and Ruth sites
- A discussion occurred regarding greywater and sewage separation.

### 4) Waste Rock/ARD Concerns

- A general discussion on waste rock management and ARD potential at various sites occurred. INAC clarified how waste rock will be managed at various sites.
- Power – asked for clarification about soil cover – permeability standards, lifespan of covers.
  - INAC-CARD provided clarification about soil covers, permeability, and borrow sources
- Discussion occurred on downstream monitoring of WR piles
- Discussion on decision matrix for tailings mgmt.
- INAC-CARD clarified how landfills will be constructed
- Discussion on quality of tailings, ARD potential
- Discussion on use of geomembranes at landfills vs. soil covers
- Walbourne – asked about containment and monitoring of tailings, anticipated water quality, predicted limits that could be met
  - INAC-CARD discussed completion of waste management plan, how tailings will be monitored
- Confirmatory sampling was discussed

### 5) Landfills and Land Farm

- Discussion occurred regarding monitoring of landfarm, what will happen with contaminated water. INAC-CARD indicated that landfarming will have separate plan, but will also be captured in Waste management plan.

6) Bullmoose Creek Diversion

- Discussion occurred on Bullmoose creek diversion, including the need for a plan to be submitted to the Board prior to construction. The risk assessment that determined the impacted soils should be removed was discussed. There was general support for requiring a plan for creek diversion in the licence.

7) Portal Seepage/Trench Water/Borrow Pit Water

- Water quality from trenches/portals was discussed, including what would trigger additional treatment beyond a sump. Possible SNP monitoring was discussed, and how it would be implemented.

8) Monitoring

- Discussion on how licence can be drafted, considering final monitoring locations not yet determined.

----- Lunch Break -----

9) Post-lunch clarifications

- INAC-CARD provided clarifications on monitoring of trench water, plan is to treat with soak-away sump.
- General discussion occurred on Plan submittal and requirements for Plans in the draft Licence – reviewers and INAC will have the opportunity to comment on plan requirements, EQCs, etc.

10) Access

- B. Sundberg raised concern regarding access, whether access on proposed ice road could be blocked.
  - INAC-CARD clarified that they do not have the jurisdiction to block access, but monitoring will take place, and relevant authorities will be notified as appropriate.
  - General discussion on monitoring of road, issues with access, and steps INAC-CARD can take to mitigate concerns.
  - Discussion on including road monitoring and notification to interested parties being included in engagement plan.

11) Closing Remarks

- Breadmore – very useful meeting, opportunity to flesh out details related to project. Moving forward, we do have our commitments for engagement, and will make revisions to engagement plan.
- Hoyt – clarifications – timeline for process
- Morse and Scott gave overview of planned timeline
- Scott – thanks everyone for attending.

----- 2:30pm Meeting Closed -----