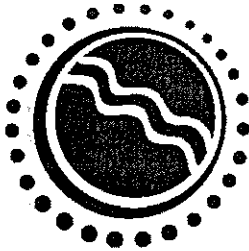


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Mackenzie Valley Environmental Impact Review Board  
Box 938, 5102-50th Avenue, Yellowknife, NT X1A 2N7

**Date:** Sunday, November 24, 2002  
**From:** Joe Acorn, Environmental Assessment Officer  
**Pages:** 12 including these 2 cover pages  
**File:** EA01-004 De Beers Snap Lake Diamond Project  
**Subject:** Technical Session Agenda for the De Beers Snap Lake Diamond Project.

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If you are a Directly Affected Party or an Intervener putting larger (hundreds or pages) reports, colour maps or other material that cannot be easily duplicated please make sure you provide the Board 17 copies. The Review Board puts a copy on the public registry, distributes 15 to all the other Interveners and Directly Affected Parties, and one copy is provided to the Chair.

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Please find attached the Agenda for the upcoming *De Beers Snap Lake Diamond Project* Environmental Assessment Technical Sessions.

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On Monday morning Mr. Gordon Wray will give the Review Board's opening comments and officially hand over the technical sessions to the facilitators. The Review Board wants to make these technical sessions productive and successful for all participants, so if you have any questions or concerns during the technical sessions please do not hesitate to call me. I can be reached after 5:00 pm at 873-9348.

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Mackenzie Valley Environmental Impact Review Board

***Schedule and Agenda  
MVEIRB Technical Sessions for  
De Beers Snap Lake Diamond Project***

***Air Tindi, Yellowknife (Latham Island)  
November 25<sup>th</sup> to December 6<sup>th</sup>, 2002  
Facilitators: Mike Bell; Bill Klassen; Hal Mills***

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***Monday, November 25<sup>th</sup> 2002***

***Introduction, Procedures, De Beers Presentation, Scope and Methodology***

9:00am	Opening Prayer	Elder
9:05am	Introductions	All
9:10am	Opening Remarks on Purpose and Process ➤ Discussion	Gordon Wray
10:15am	Break	
10:30am	De Beers Presentation	John McConnell
11:30am	General Discussion	All
12:00noon	Lunch	
1:30pm	Review of Schedule and Agenda	Facilitators
1:45pm	Technical Session Procedures	Facilitators
2:00pm	Scope and Methodology	Facilitators
2:15pm	Topics Re Scope and Methodology ➤ Production rates ➤ Alternatives (hydro) ➤ Monitoring	De Beers
2:45pm	General Discussion	All
3:15pm	Adjourn For Day	

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*Tuesday, November 26<sup>th</sup> 2002*  
*Water Quality & Quantity*

8:30am	Welcome, Introductions	Facilitators / All
8:35am	Recap of Day One	Facilitators
8:40am	Agenda for November 26 <sup>th</sup>	Facilitators
8:45am	Presentation: WQ Issues for this Morning ➤ Discussion	De Beers
10:15am	Break	
10:30am	Water Management Plan Issues ➤ Groundwater ➤ Fracture flow and uncertainty ➤ Water inflow chemistry ➤ Paste backfill chemistry	Facilitators
12:00noon	Lunch	
1:30pm	Presentation: WQ Issues for this Afternoon ➤ Discussion	De Beers
1:45pm	Water Management System ➤ Sewage treatment plant ➤ Phosphorus removal ➤ Different scenarios ➤ Volume and capacity issues	Facilitators
2:45pm	Break	
3:00pm	Water Management System (Continued) ➤ Water treatment ➤ Other issues	Facilitators
5:00pm	Adjourn for Day	

*Wednesday, November 27<sup>th</sup> 2002*  
*Water Quality & Quantity*

8:30am	Welcome, Introductions	Facilitators / All
8:35am	Recap of Technical Sessions to Date	Facilitators
8:40am	Agenda for November 27 <sup>th</sup>	Facilitators
8:45am	Presentation: WQ Issues for this Morning ➤ Discussion	De Beers
9:45am	Snap Lake Water Quality ➤ Snap Lake WQ predictions ➤ WQ benchmarks & assessment criteria	Facilitators
10:15am	Break	
10:30am	Snap Lake Water Quality (Continued) ➤ Effects near the discharge ➤ Eutrophication modelling and phosphorus ➤ Secondary effects of eutrophication ➤ Dissolved metals in effluent discharge	Facilitators
12:00noon	Lunch	
1:30pm	Presentation: WQ Issues for this Afternoon ➤ Discussion	De Beers
2:15pm	North Lakes Water Quality ➤ North Lake impacts ➤ Surface water Q&Q ➤ Groundwater ➤ Sediment pore water	Facilitators
2:45pm	Break	
3:00pm	Water Quality & Quantity ➤ Other issues ➤ Cumulative impacts	Facilitators
5:00pm	Adjourn for Day	

*Thursday, November 28<sup>th</sup> 2002*  
*Aquatic Habitat and Aquatic Organisms*

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for November 28 <sup>th</sup>	Facilitators
9:15am	Aquatic Habitat & Organisms Presentation ➤ Discussion	De Beers
10:15am	Break	
10:30am	Aquatic Habitat & Organism Issues ➤ Adequacy of baseline data ➤ TDS/chloride effects on aquatic organisms ➤ Lake sediments ➤ Water level fluctuations ➤ Changes in nutrient supply	Facilitators
12:00noon	Lunch	
1:30pm	Aquatic Habitat & Organism Issues (Continued) ➤ Bioaccumulation of Selenium and Cadmium ➤ Fish habitat criteria ➤ Fish habitat / no-net-loss	Facilitators
2:45pm	Break	
3:00pm	Aquatic Resources ➤ Other aquatic issues ➤ Aquatic resources monitoring program	Facilitators
4:00pm	Cumulative impacts ➤ General CEA methodology ➤ Aquatic habitats ➤ Aquatic organisms ➤ Consideration of other developments	Facilitators
5:00pm	Adjourn for Day	

*Friday, November 29<sup>th</sup> 2002*  
*Wildlife and Wildlife Habitat*

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for November 29 <sup>th</sup>	Facilitators
9:15am	Presentation: Wildlife Issues for Today ➤ Discussion	De Beers
9:40am	Wildlife Study Design ➤ Adequacy of baseline data	Facilitators
10:15am	Break	
10:30am	Wildlife Study Design (continued) ➤ Caribou, grizzly, wolverine, raptor surveys <sup>1</sup> ➤ Wildlife corridors ➤ Impacts to wildlife movements	Facilitators
11:30am	Linkage Analysis ➤ Definition of residual impacts	Facilitators
12:00noon	Lunch	
1:30pm	Impact Ratings ➤ VEC selection ➤ Definition of impact ratings ➤ Indirect effects on breeding birds ➤ Other	Facilitators
2:45pm	Break	
3:00pm	Traditional Knowledge ➤ Use of TK in mitigation and monitoring ➤ Collaborative efforts ➤ Other TK issues	Facilitators
5:00pm	Adjourn for Day	

***Monday, December 2<sup>nd</sup> 2002***  
***Wildlife and Wildlife Habitat***

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for December 2 <sup>nd</sup>	Facilitators
9:15am	Presentation: Wildlife Issues for Today ➤ Discussion	De Beers
9:45am	Wildlife Monitoring Program ➤ Rigour of program ➤ Validity of data collected	Facilitators
10:15am	Break	
10:30am	Wildlife Monitoring Program (Continued) ➤ COSEWIC species ➤ Regional monitoring initiatives ➤ Collaborative efforts	Facilitators
12:00noon	Lunch	
1:30pm	Mitigation and Adaptive Management ➤ Blasting impacts on breeding raptors ➤ Wildlife-human interactions ○ Attractants and waste management ○ Employee training ➤ Current best practices for M&AM ➤ Collaborative efforts	Facilitators
2:45pm	Break	
3:00pm	Cumulative Impacts (Continued) ➤ General CEA methodology ➤ Definition of zone of influence for CEA ➤ Overall cumulative effects assessment	Facilitators
5:00pm	Adjourn for Day	



*Tuesday, December 3<sup>rd</sup> 2002*  
*Geotechnical*

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for December 3 <sup>rd</sup>	Facilitators
9:15am	Presentation: North Pile Development ➤ Discussion	De Beers
9:30am	North Pile Slope Stability ➤ Pore pressures ➤ Freeze/thaw	Facilitators
10:15am	Break	
10:30am	North Pile Operational Issues ➤ Discharge scenarios ➤ Internal pond management ➤ Perimeter ditch ➤ Identification of non-PAG ➤ Impact of moving PAG underground	Facilitators
11:15am	Paste Operational Issues ➤ Grain size variation ➤ Pore Water chemistry variation ➤ Variation in pore water content ➤ Previous paste experience in permafrost	Facilitators
12:00noon	Lunch	
1:30pm	North Pile Runoff ➤ Cryoconcentration due to freezing ➤ Acid Rock Drainage	Facilitators
2:15pm	North Pile Thermal Regime ➤ Geothermal gradient ➤ N factors	Facilitators
2:45pm	Break	
3:00pm	North Pile Thermal Regime (Continued) ➤ Thermal properties	Facilitators

	<ul style="list-style-type: none"> <li>➤ Climate change</li> <li>➤ Adequacy of air temperature modelling</li> <li>➤ Rate of freezeback</li> </ul>	
4:00pm	North Pile Monitoring <ul style="list-style-type: none"> <li>➤ Adaptive management</li> </ul>	Facilitators
5:00pm	Adjourn for Day	

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*Wednesday, December 4<sup>th</sup>, 2002*  
*Geotechnical, A&R, and Air Quality*

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for December 4 <sup>th</sup>	Facilitators
9:15am	Presentation: Geotechnical Issues for Today <ul style="list-style-type: none"> <li>➤ Discussion</li> </ul>	De Beers
10:15am	Break	
10:30am	Permafrost <ul style="list-style-type: none"> <li>➤ Impacts from mine</li> <li>➤ Impacts from project components</li> <li>➤ Aggregates &amp; massive ground ice</li> </ul>	Facilitators
12:00noon	Lunch	
1:30pm	Site Reclamation/Closure Planning <ul style="list-style-type: none"> <li>➤ Progressive reclamation</li> <li>➤ Disposal methods and locations</li> </ul>	Facilitators
2:45pm	Break	
3:00pm	Site Reclamation/Closure Planning (Continued) <ul style="list-style-type: none"> <li>➤ Monitoring</li> <li>➤ Contingency plans</li> <li>➤ Protocols and standards</li> </ul>	Facilitators
3:45pm	Revegetation	Facilitators
4:00pm	Air Quality	Facilitators

5:00pm Adjourn for Day

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***Thursday, December 5<sup>th</sup> 2002***  
***Socio-economic***

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for December 5 <sup>th</sup>	Facilitators
9:15am	Presentation: Overview of Socio-ec Components ➤ Discussion	De Beers
10:15am	Break	
10:30am	Socio-Economic Impact Assessment ➤ Approach ➤ Methodology	Facilitators
12:00noon	Lunch	
1:30pm	SEIA Effects Mitigation ➤ Impact management measures	Facilitators
2:45pm	Break	
3:00pm	Sustainable Economic Development	Facilitators
5:00pm	Adjourn for Day	

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***Friday, December 6<sup>th</sup> 2002***  
***Socio-economic and Cultural***

9:00am	Welcome, Introductions	Facilitators / All
9:05am	Recap of Technical Sessions to Date	Facilitators
9:10am	Agenda for December 6 <sup>th</sup>	Facilitators

9:15am	Socio-Economic Cumulative Impacts	Facilitators
10:15am	Break	
10:30am	Global Cumulative Impacts <ul style="list-style-type: none"> <li>➤ Integrating previous components</li> <li>➤ CEA Methodology</li> <li>➤ Consideration of other developments</li> </ul>	Facilitators
12:00noon	Lunch	
1:30pm	General Discussion on Technical Issues	Facilitators
2:30pm	MVEIRB: next steps in the process	Chair
3:00pm	Closing Remarks	All
3:30pm	Closing Prayer, Adjourn	

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