

LEVEL I SCREENING DECISION SUMMARY

PROJECT IDENTIFICATION

Applicant: Homestake Mineral Development Co.
 Licence Application: X Renewal: _____ Amendment: _____ Other: _____
 Present Licence Number: N7-3-1603
 Date of Application: 19/12/91 Proposed Date of Undertaking: 1/04/92
 Submission Title: water licence application for mineral exploration
 Location: GEORGE LAKE, 500 km. NW of YELLOWKNIFE
 Project Description: mineral exploration: drilling + bulk sampling (and removal)

SCREENING CRITERIA

Component	Summary of Impact				Significant Information Deficiencies ¹ ?	
	None/ Negligible	Minor	Mitigable	Major	Major	Minor
<u>Bio-Physical</u>						
Plants/Animals	X					
Fish Habitat/ Utilization	X					
Water Quality		X	X			
Hydrologic Regime	X					
Soils	X					
Groundwater	X					
Surfacewater	X					
Air Quality	X					
<u>Socio-Economic</u>						
Public Concerns	X					
Land/Water Use	X					
Resource Users	X					
Employment	X					
Land Claims	X					
<u>Others</u>						
Consequence of Accidents	X					
Public Health/Safety	X					
Cultural	X					

Comments: This water licence application, and screening thereof, is for exploration purposes only; not for future production.

Benefits of Undertaking: This exploration activity may lead to the development of an economically viable mine.

LEVEL I SCREENING RECOMMENDATION

- ☐ Automatic exclusion, project proceeds through regulatory process.
- ☐ No significant adverse effects or identified public concerns, project proceeds through regulatory process.
- ☒ Potentially adverse effects and/or public concerns may be mitigated with known technology, project proceeds through regulatory process.
- ☐ Project proceeds through regulatory process with conditions (Attached).
- ☐ Potential adverse impacts or further study required or significant public concern; recommend referral to Level II screening.
- ☐ Project on Comprehensive Study list; automatic referral to Level II.

Prepared by: Greg Cook Special Projects Feb 20/92
 Signature Title Date

Recommended by: [Signature] Reg. Mgr. Water Resources [Signature]
 Signature Date Date

Approved by: [Signature] Director, Ren. Res. & Env. C. Mark 1992
 Signature Date Date

¹ Major information deficiencies are those that will require further indepth study at Level II. Minor information deficiencies are those that are acceptable for Level I screening to proceed.

File:	
Date:	1/1
Due date:	1/1
Municipal	
Industrial	
Maps Dwg	

DETAILED LEVEL 1 SCREENING REPORT

(for completion / retention by
Water Resources.)

Environmental Assessment and Review Process (EARP)
Indian and Northern Affairs Canada,
Northern Affairs Program, Water Resources Division

~ Summary of TAC & NAP comments

1. PROJECT IDENTIFICATION

Applicant: Homesite Mineral Development Co.
Licence Application: X Renewal: Amendment: Other:
Present Licence Number: N7-3-1603
Date of Application: 19/12/91 Proposed Date of Undertaking: 01/04/92
Submission Title: water licence application - mineral exploration
Location: GEORGE LAKE, NWT, 500 km NW of YELLOWKNIFE
Project Description: water use / waste disposal for milling & bulk sampling at a gold exploration site in 1992. Ore will be crushed, and taken south for analysis and feasibility. There will be a camp, but no mill, no tailing ponds.
Relevant Plans/Studies: water licence application & supporting documentation, including water quality & acid generation, leachate tests.
NAP District: YELLOWKNIFE
Class exemption from further Screening: Yes No X If "Yes" explain decision and then proceed to "Recommendations":

Previous screening of similar projects Yes X No , Describe: Other mining projects, & MCN Property, Norisvik Mine.
Date distributed: 06/01/92 Date Comments due: 27/01/92
Other regulatory permits: ☐ Ocean Dumping ☐ Fisheries Act ☒ TLA
☐ Other

2. Description of Potential Environmental Effects and Concerns:

2.1 Bio-Physical

2.1.1 Plants/Animals: No concerns were identified

Significance of Impact or Deficiency: nil

2.1.2 Fish Habitat/Utilization: No concerns were identified pending that mitigation & monitoring requirements are dealt with in the licensing process
Significance of Impact or Deficiency: mitigable

2.1.3 Water Quality: negligible. No minor impacts may occur due to the potential for acid mine drainage. This impact can be mitigated.
Significance of Impact or Deficiency: minor but mitigable

2.1.4 Hydrologic Regime: No impacts were identified

Significance of Impact or Deficiency: nil

2.1.5 Soils: No impacts were identified

Significance of Impact or Deficiency: nil

2.1.6 Groundwater: No impacts identified. No license has applied to use aspects of preliminary IF it is identified during audit sampling or bulk sampling
Significance of Impact or Deficiency: nil

2.1.7 Surfacewaters: No impacts identified or expected
Significance of Impact or Deficiency: nil

2.1.8 Air Quality: No impacts identified or expected
Significance of Impact or Deficiency: nil

2.2 Socio-Economic

2.2.1 Public Concerns: No impacts were identified. The local HTA in Bathurst Inlet want to be kept informed of developments & assure them no contamination will occur.
Significance of Impact or Deficiency: nil

2.2.2 Land/Water Use: No impacts were identified
See 2.2.1
Significance of Impact or Deficiency: nil

2.2.3 Resource Users: No impacts were identified. As noted by HTA (2.2.1) this area is used for hunting, trapping & fishing by Bathurst Inlet and residents.
Significance of Impact or Deficiency: nil

2.2.4 Employment: No impacts identified. Due to small operation, job opportunities not likely for local residents unless a mine is developed.
Significance of Impact or Deficiency: nil

2.2.5 Land Claims: No concerns identified, although HTA (2.2.1) noted that some land in this area has been selected under the (ITN) claims process.
Significance of Impact or Deficiency: nil

2.3 Other

2.3.1 Consequence of Accidents: None identified. It was recommended that an oil spill contingency plan be prepared.
Significance of Impact or Deficiency: nil - mitigable

2.3.2 Public Health: No concerns were identified.
Significance of Impact or Deficiency: nil

2.3.3 Cultural: No concerns were identified.
Significance of Impact or Deficiency: nil

2.3 Other: The main overall concern was the potential for oil mine drainage from the ore stockpile, especially if not all ore is removed. Additional plans, tests & suggestions
Significance of Impact or Deficiency: minor - mitigable

3. Summary of Recommended/Planned Mitigation Measures:

- placement of ore (potential acid generator) on waste rock with oil lining from storage on site
- construction of surface settling ponds (collecting ground water) to contain seepage from ore stockpile for recycling (drinking water) and settle settling of solids to additional acid generation tests may be conducted
- monitoring of seepage from ore stockpile & settling ponds
- no charter milling/processing of ore here in facilities

4. Monitoring Requirements:

- Continuation of test recommended (Sug. title by YK District) that additional acid generation (kinetic, AGK) tests be conducted, especially if ore is stockpiled for any length of time
- monitor settling pond seepage
- these & other requirements can be put in place & d.

5. Project Alternatives (assessed by applicant or recommended by reviewers):

None were put forward.

6. Consultation/Public Review:

Agency	Sent	Respond	Agency	Sent	Respond
INAC-NAP - Wat. Res.	☒	☒	DFO	☒	☒
Lands	☒	☐	DOE - EP	☒	☒
En. & Con.	☒	☐	GNWT/MACA Lands	☒	☐
Minerals	☐	☐	Com. Wks.	☐	☐
District	☒	☒	GNWT - Health	☒	☐
GNWT - Ren. Res.	☒	☐	GNWT - DPW	☐	☐
Cham. of Mines	☐	☐	Assoc. Municipal.	☒	☐
Other <u>Narco Cem, Giant YK,</u>	☒	☐	Native Org.	☒	☒
CPA, EM&PR (TAC)			(sent to TFM; no reply, but letter received from local HTA).		

7. Conclusions/Recommendations: Based on the information received (ie exploration, one season), it was felt that potential environmental effects are mitigable with known technology, and the project can proceed through "Level I" of the regulatory process. Additional concerns and information requirements can be handled through the licensing of mine plans.

8. Authorization:

Report Prepared by: Greg Cook Date: 20/02/92

Report Checked by: _____ Date: 1/1