

NORTHWEST TERRITORIES WATER BOARD

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**ONSHORE OIL AND GAS
EXPLORATION DRILLING
QUESTIONNAIRE**

FOR

WATER LICENCE APPLICATIONS



**Prepared by:
Department of Indian Affairs and Northern Development
Water Resources Division
August 1999
Version 5.07**

Introduction

The purpose of this questionnaire is to solicit supplemental information from an applicant to support their application for a water licence (or renewal). It is anticipated that the completion of this questionnaire will reduce delays arising from the Northwest Territories Water Board having to solicit additional information after an application has already been submitted. This information will also be useful during the environmental assessment and screening of your application, which must be undertaken prior to development and approval of a water licence.

The applicant should complete the questionnaire to the best of his/her ability, recognizing that some questions may not be relevant to the project under consideration. For questions that do not relate to his/her operation, the applicant is requested to indicate "N/A" (Not Applicable).

If any questions arise while completing the questionnaire, the applicant may wish to contact the Northwest Territories Water Board at (867) 669-2772. If your question is that of a technical nature please contact the Regulatory Approvals Section of the Water Resources Division, Department of Indian Affairs and Northern Development (INAC), at (867) 669-2651.

Chairman,
Northwest Territories Water Board

Prepared by:
Department of Indian Affairs and Northern Development
Water Resources Division
August 1999
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If space is insufficient for any of the responses on this questionnaire, use the back of the sheet or attachments.

List attachments in Appendix 1.

Print or type your responses.

1.5 SITE HISTORY

INDICATE IF THIS SITE CONTAINS ANY KNOWN:

- FORMER WELL SITES _____
- WASTE DUMPS _____
- FUEL AND CHEMICAL STORAGE AREAS _____
- SUMP AREAS _____
- WASTE WATER DISCHARGE LOCATIONS _____

DESCRIBE SITES AND REFERENCE THEM ON

Not applicable.

1.6 ATTACH MAPS DRAWN TO SCALE SHOWING LOCATIONS OF EXISTING AND PROPOSED: Please see attached Project Description.

- CAMP FACILITIES,
- WELL SITE(S),
- SUMPS,
- WATER SOURCES,
- FUEL AND CHEMICAL STORAGE FACILITIES,
- DRILLING MUD STORAGE FACILITIES,
- DRAINAGE CONTROLS,
- TRANSPORTATION ROUTES (SEASONAL AND ALL WEATHER)
- ELEVATION CONTOURS,
- LOCATIONS OF WATERBODIES
- DRAINAGE PATTERNS FOR WELL AND CAMP SITES.

* Clearly identify crossings over water courses greater than 5 m at ordinary high water mark.

1.7 DESCRIBE THE PROPOSED OR CURRENT METHOD OF FRESHWATER WITHDRAWAL, THE TYPE AND OPERATING CAPACITY OF THE PUMPS USED AND THE INTAKE SCREEN SIZE.

Water for ice access, building snow ramps, and possibly a supplementary camp source, will be obtained from channels of the Mackenzie River. Water withdrawal rates are not expected to exceed 100 m³/day. intake hoses will be screened with 2.4 mm wire mesh. Please see Project Description for additional information.

- 1.8 ESTIMATE MAXIMUM DRAW DOWN AND RECHARGE CAPABILITY OF THE RIVER OR LAKE FROM WHICH FRESH WATER WILL BE DRAWN. QUOTE DRAW DOWN IN CENTIMETRES, OR, STATE PERCENTAGE OF FLOW WITHDRAWN.

Less than 1% of flow to be withdrawn.

- 1.9 INDICATE IF PERMAFROST IS EXPECTED TO BE ENCOUNTERED UNDER:

CAMP FACILITIES	<u>X</u>
WELL SITE	<u>N/A</u>
ACCESS ROUTES	<u>X</u>
SUMPS	<u>N/A</u>
OTHER	<u>N/A</u>

- 1.10 INDICATE ANY POTENTIAL FOR ENCOUNTERING ARTESIAN AQUIFERS OR LOST CIRCULATION WITHIN THE SURFACE HOLE (TO CASING DEPTH)

Not applicable.

- 1.11 ATTACH A DESCRIPTION OF THE SURFICIAL GEOLOGIC AND HYDRO-GEOLOGIC CONDITIONS IN THE IMMEDIATE VICINITY OF THE WELLSITE

See attached Project Description.

2.6 WILL A CAMP BE PROVIDED?

YES

NO

2.7 IF YES, THEN INDICATE THE CAPACITY AND THE EXPECTED MAXIMUM NUMBER OF PERSONS THAT WILL BE ACCOMMODATED.

CAPACITY 110 PERSONS

MAXIMUM ACCOMMODATED 110 PERSONS

SECTION 3:

CONTINGENCY, ABANDONMENT AND RESTORATION PLANNING

- 3.1 ATTACH THE PROPOSED OR EXISTING CONTINGENCY PLAN WHICH DESCRIBES COURSE OF ACTION, MITIGATIVE MEASURES AND EQUIPMENT AVAILABLE FOR USE IN THE EVENT OF SYSTEM FAILURES AND SPILLS OF HAZARDOUS MATERIALS (IN COMPLIANCE WITH NWT WATER BOARD GUIDELINES FOR CONTINGENCY PLANNING, 1987).**

Please see attached Project Description.

- 3.2 ATTACH AN INVENTORY OF HAZARDOUS MATERIALS ON THE PROPERTY (AS DEFINED UNDER TRANSPORTATION OF DANGEROUS GOOD REGULATIONS).**

Fuel and explosives will be moved, stored and used in accordance with the Transportation of Dangerous Goods Act and Regulations.

Fuel amounts (approximate):

Diesel:	28,009 litres
Gasoline:	11,355 litres
Jet B:	determined by helicopter use

Explosive amount to be determined, and will be stored in an approved powder magazine.

- 3.3 ATTACH AN OUTLINE OF PLANNED ABANDONMENT AND RESTORATION PROCEDURES.**

Please see attached Project Description.

SECTION 4:

ENVIRONMENTAL ASSESSMENT AND SCREENING

Your application and other project details, such as this questionnaire, will be sent out for review by local aboriginal and public groups as well as territorial and federal government agencies. Their comments regarding the significance of project impacts are considered before a decision is made to allow the project to proceed. Because formal assessment and screening of water licences was only initiated in about 1989, applicants will find that this process may be required even if the project has been built and in operation for several years. However, if your project has been previously screened a further assessment may not be required, or a more limited process may be used. This will depend on individual circumstances, including the stage of the project. Some projects may need a higher level of review or submission of more information before being screened.

- 4.1 HAS THIS PROJECT EVER UNDERGONE AN INITIAL ENVIRONMENTAL ASSESSMENT, INCLUDING PREVIOUS OWNERS?

YES NO

IF YES, BY WHOM / WHEN: EA conducted by Inuvialuit Environmental & Geotechnical Inc., August 2001 – please see attached Project Description

- 4.2 HAS BASELINE DATA BEEN COLLECTED FOR THE MAIN WATER BODIES IN THE AREA?

YES NO

IF YES, ATTACH DATA.

- 4.3 HAS BASELINE DATA BEEN COLLECTED AND EVALUATED WITH RESPECT TO THE BIOPHYSICAL COMPONENTS OF THE ENVIRONMENT POTENTIALLY AFFECTED BY THE PROJECT (WILDLIFE, SOILS, AIR QUALITY).

YES NO

IF YES, ATTACH DATA.

- 4.4 ATTACH A DESCRIPTION OF ALL PROPOSED AND EXISTING ENVIRONMENTAL MONITORING PROGRAMS.

Please see attached Project Description.

- 4.5 HAS A COMMUNITY CONSULTATION PROGRAM BEEN INITIATED?

YES NO

IF YES, PROVIDE DETAILS OF THE PROGRAM.