

TITLE	<b>Application for Land Use Permits for Land within the Municipal Boundaries of Norman Wells, Fort Good Hope and Tulita</b>
SECTION	Contents

## TABLE OF CONTENTS

<b>1. Introduction</b>	
1. Purpose.....	1-1
2. How to Use This Document.....	1-3
3. Mackenzie Gas Project .....	1-7
<b>2. Type A Land Use Permit Application</b>	
1. Summary .....	2-1
2. Application.....	2-5
<b>3. Overview of Activities in the SSA</b>	
1. Regional Overview .....	3-1
2. Project Setting.....	3-9
3. Project Schedule.....	3-21
4. Project Activities – Infrastructure.....	3-25
5. Project Activities – Borrow Sites.....	3-41
6. Project Activities – Pipeline.....	3-47
7. Project Activities – Crossings.....	3-79
8. Project Effects and Mitigations.....	3-99
<b>4. Infrastructure Sites</b>	
1. Norman Wells Infrastructure Site .....	4-1
2. Norman Wells Compressor Station Site .....	4-21
3. Fort Good Hope Fuel Storage and Stockpile Site and Barge Landing Roads .....	4-33
<b>5. Borrow Sites</b>	
1. Introduction.....	5-1
2. Borrow Site 7.049P – Norman Wells .....	5-17
3. Borrow Site 7.057P – Norman Wells .....	5-39
4. Borrow Site 7.054P.....	5-53
5. Borrow Site 6.080P – Fort Good Hope.....	5-75
6. Borrow Site 6.077P – Fort Good Hope.....	5-91

**6. Pipeline Segments**

1. Summary ..... 6-1  
2. Pipeline Segment M1-NW-Gas ..... 6-13  
3. Pipeline Segment M2-NW-NGL ..... 6-19  
4. Pipeline Segment M1-FGH..... 6-23  
5. Access Roads Located within the Hamlet of Tulita Municipal  
Boundary ..... 6-35

**7. Facility Sites**

1. Norman Wells Compressor Station ..... 7-1

**8. Environmental and Resource Effects**

1. Introduction..... 8-1  
2. Biophysical Environment..... 8-3  
3. Human Environment..... 8-89

**9. Access Agreement Summary**

1. Introduction..... 9-1

**10. Public Involvement**

1. Introduction..... 10-1  
2. Public Involvement Program ..... 10-3  
3. Public Involvement Program Activities..... 10-9  
4. Summary of Public Issues and Concerns..... 10-29  
5. Examples of Public Involvement Program Results ..... 10-37

**11. Management Plans**

1. Emergency Response Plan..... 11-1  
2. Waste Management Plan..... 11-11  
3. Environmental Protection Plans..... 11-25  
4. Heritage Resources Protection Plan..... 11-29

**References**

..... R-1

**Glossary**

..... G-1

**Appendices**

A. Calculation of Land Area Requirements.....	A-1
B. Proposed Land Use Designation of Development Activities .....	B-1
C. Foldout Maps .....	C-1



TITLE	<b>Application for Land Use Permits for Land within the Municipal Boundaries of Norman Wells, Fort Good Hope and Tulita</b>
SECTION	Contents

## LIST OF FIGURES

Figure 1-1:	Regional Overview of the Project Production Area .....	1-11
Figure 1-2:	Regional Overview of the Pipeline Corridor .....	1-12
Figure 2-1:	MACA Overview Map – Sites within Municipal Boundaries.....	2-3
Figure 3-1:	Project Activities in the SSA .....	3-6
Figure 3-2:	Potential Water Source Locations in the SSA .....	3-7
Figure 3-3:	Artist’s Impression of Typical Spud Barge Landing Site.....	3-26
Figure 3-4:	Schematic of a Typical Spud Barge Landing Site .....	3-27
Figure 3-5:	Artist’s Impression of a Typical 120-Person Camp.....	3-29
Figure 3-6:	Artist’s Impression of a Typical 950-Person Camp.....	3-30
Figure 3-7:	Artist’s Impression of a Typical 1,350-Person Camp.....	3-31
Figure 3-8:	Example of Right-of-Way with Travel Lane .....	3-34
Figure 3-9:	Typical All-Weather Access Road (8.0 m).....	3-36
Figure 3-10:	Typical Winter Access Road .....	3-37
Figure 3-11:	Typical Airstrip (Dash-8 [100]) .....	3-38
Figure 3-12:	Typical Airstrip (Twin Otter).....	3-38
Figure 3-13:	Artist’s Impression of a Typical Borrow Source Development Site .....	3-45
Figure 3-14:	Pipeline Segments by Land Ownership in the SSA.....	3-50
Figure 3-15:	Artist’s Impression of a Typical Compressor Station .....	3-53
Figure 3-16:	Typical Block Valve (Gas) – Dual Pipeline Site .....	3-54
Figure 3-17:	Typical Block Valve (NGL) – Dual Pipeline Site .....	3-54
Figure 3-18:	Artist’s Impression of an Automated Block Valve Site.....	3-55
Figure 3-19:	Artist’s Interpretation of an Automated Block Valve Site – NGL .....	3-56
Figure 3-20:	Example of a Pig Launcher or Receiver .....	3-59
Figure 3-21:	Typical Deep Anode Groundbed .....	3-60
Figure 3-22:	Typical Remote Cathodic Protection Deep Anode Bed Site .....	3-61
Figure 3-23:	Typical Right-of-Way Configuration for Single Pipe (30 m).....	3-63
Figure 3-24:	Typical Right-of-Way Configuration for Single Pipe (40 m).....	3-64
Figure 3-25:	Typical Right-of-Way Configuration for Dual Pipelines (50 m).....	3-64
Figure 3-26:	Example of a Right-of-Way During Construction.....	3-66
Figure 3-27:	Example of Bulldozers Grading Side Slopes.....	3-66
Figure 3-28:	Typical Temporary Workspace at Watercourse Crossing – Dual Pipe Alignment.....	3-67
Figure 3-29:	Typical Temporary Workspace – Right-of-Way Pushouts.....	3-68
Figure 3-30:	Typical Temporary Workspace – Right-of-Way Sidebends.....	3-68
Figure 3-31:	Example of Laying Log Corduroy on Travel Lane .....	3-69
Figure 3-32:	Example of a Pipe Bending Machine on Pipeline Right-of-Way .....	3-71
Figure 3-33:	Example of Welding Shelters on Pipeline Right-of-Way.....	3-72
Figure 3-34:	Example of a Chain Ditcher.....	3-73
Figure 3-35:	Example of a Bucketwheel Ditcher .....	3-74

Figure 3-36:	Examples of Trenching, Lowering in Pipe and Backfilling Cleanup ....	3-74
Figure 3-37:	Typical Open Cut Watercourse Crossing .....	3-82
Figure 3-38:	Typical Isolated Crossing – Dam and Pump.....	3-84
Figure 3-39:	Example of Isolated Dam and Pump Crossing .....	3-85
Figure 3-40:	Typical Isolated Crossing – Dam and Flume.....	3-86
Figure 3-41:	Examples of an Isolated Dam and Flume Crossing .....	3-86
Figure 3-42:	Horizontal Directional Drill Photograph – Entry Side .....	3-87
Figure 3-43:	Schematic of a Typical Horizontal Directional Drill.....	3-89
Figure 3-44:	Examples of Concrete Weights to Counter Buoyancy .....	3-90
Figure 3-45:	Typical Temporary Bridge Structure .....	3-91
Figure 3-46:	Typical Culvert Crossing .....	3-92
Figure 3-47:	Typical Timber Fill Crossing.....	3-93
Figure 3-48:	Typical Ice Bridge Crossing .....	3-94
Figure 3-49:	Typical Snow Fill Crossing .....	3-95
Figure 3-50:	Highway Road Crossing .....	3-97
Figure 3-51:	Foreign Pipeline Crossing.....	3-98
Figure 4-1:	MACA Overview Map – Norman Wells Infrastructure Site .....	4-2
Figure 4-2:	Site-Specific Map of the Norman Wells Infrastructure Site.....	4-19
Figure 4-3:	Photo of the Norman Wells Infrastructure Site Looking Northeast .....	4-20
Figure 4-4:	MACA Overview Map – Norman Wells Facility Site – Compressor Station .....	4-23
Figure 4-5:	Site-Specific Map of the Norman Wells Facility Site – Compressor Station .....	4-29
Figure 4-6:	Photo of the Norman Wells Facility Site – Compressor Station .....	4-30
Figure 4-7:	Photo of the Esso Dock Barge Landing.....	4-31
Figure 4-8:	MACA Overview Map – Fort Good Hope Infrastructure Site .....	4-35
Figure 4-9:	Site-Specific Map of the Fuel Storage and Stockpile Site and Barge Landing in Fort Good Hope.....	4-51
Figure 4-10:	Photo of the Fuel Storage and Stockpile Site, Barge Landing and Related Access Roads in Fort Good Hope.....	4-52
Figure 5-1:	Norman Wells Overview Map – Borrow Sites .....	5-6
Figure 5-2:	Typical Sequence of Borrow Pit Development .....	5-9
Figure 5-3:	Typical Sequence of Quarry Development.....	5-11
Figure 5-4:	Norman Wells Overview Map – Borrow Site 7.049P .....	5-18
Figure 5-5:	Bosworth Creek with Borrow Source 7.049 in Background .....	5-19
Figure 5-6:	Norman Wells Site-Specific Map – Borrow Site 7.049P .....	5-37
Figure 5-7:	Existing Quarry with All-Weather Road to Norman Wells.....	5-39
Figure 5-8:	Norman Wells Overview Map – Borrow Site 7.057P .....	5-40
Figure 5-9:	Existing Quarry on Borrow Source 7.057.....	5-41
Figure 5-10:	Norman Wells Site-Specific Map – Borrow Site 7.057P .....	5-51
Figure 5-11:	Kame Complex at Borrow Source 7.054 .....	5-53
Figure 5-12:	SSA Crown Lands Overview Map – Borrow Site 7.054P.....	5-54
Figure 5-13:	Soils and Landforms Setting in Borrow Site 7.054P .....	5-58
Figure 5-14:	Example of Vegetation at Borrow Site 7.054P .....	5-59
Figure 5-15:	Norman Wells Site-Specific Map – Borrow Site 7.054P .....	5-74
Figure 5-16:	Fort Good Hope Overview Map – Borrow Site 6.080P.....	5-76

Figure 5-17: Esker-Kame Complex – Borrow Source 6.080..... 5-77

Figure 5-18: Fort Good Hope Site-Specific Map – Borrow Site 6.080P..... 5-89

Figure 5-19: Esker Ridge East of Borrow Site 6.077P..... 5-91

Figure 5-20: Fort Good Hope Overview Map – Borrow Site 6.077P..... 5-92

Figure 5-21: Esker East of Borrow Site 6.077P..... 5-93

Figure 5-22: Fort Good Hope Site-Specific Map – Borrow Site 6.077P..... 5-103

Figure 6-1: Norman Wells Overview Map – Pipeline Segments ..... 6-3

Figure 6-2: Norman Wells Pipeline Segment M1-NW-Gas – Map 1 of 2  
(KP-474 to KP-481)..... 6-16

Figure 6-3: Norman Wells Pipeline Segment M1-NW-Gas – Map 2 of 2  
(KP-481 to KP-489)..... 6-17

Figure 6-4: Norman Wells Pipeline Segment M2-NW-NGL  
(KP-474 to KP-481)..... 6-21

Figure 6-5: Fort Good Hope Overview Map – Pipeline Segment ..... 6-25

Figure 6-6: Fort Good Hope Pipeline Segment M1 – FGH – Map 1 of 2  
(KP-316 to KP-333)..... 6-33

Figure 6-7: Fort Good Hope Pipeline Segment M1 – FGH – Map 2 of 2  
(KP-333 to KP-342)..... 6-34

Figure 6-8: Tulita Overview Map – Access Road Map 1 ..... 6-38

Figure 6-9: Tulita Overview Map – Access Road Map 2..... 6-39

Figure 7-1: Norman Wells Overview Map – Norman Wells Facility Site –  
Compressor Station..... 7-4

Figure 7-2: Site-Specific Map of the Norman Wells Facility Site – Compressor  
Station ..... 7-27

Figure 7-3: Norman Wells Facility Site – Compressor Station ..... 7-28

Figure 8-1: Wind Speeds and Wind Direction for Norman Wells ..... 8-5

Figure 8-2: Permafrost Extent in the Sahtu Settlement Area..... 8-11

Figure 8-3: Ecological Zones within the Sahtu Settlement Area..... 8-13

Figure 8-4: Hospitalizations for Alcohol-Related Illnesses in the Sahtu  
Communities ..... 8-104

Figure 8-5: *Young Offenders Act* Offences in the Sahtu Communities ..... 8-105

Figure 8-6: Sexually Transmitted Infections in the Sahtu Communities..... 8-106

Figure 8-7: Adults Who Hunted or Fished in the Sahtu Communities..... 8-111

Figure 8-8: Aboriginal Language Speakers in the Sahtu Communities ..... 8-112

Figure 8-9: Proposed Protected Areas in the SSA..... 8-116

Figure 11-1: Spill Report Form ..... 11-5

Figure 11-2: Waste Management Plan Decision-Making Process ..... 11-13

Figure 11-3: Waste Transfer and Storage Facilities ..... 11-18



TITLE	<b>Application for Land Use Permits for Land within the Municipal Boundaries of Norman Wells, Fort Good Hope and Tulita</b>
SECTION	Contents

**LIST OF TABLES**

Table 1-1:	Location and Length of Pipeline Construction Spreads .....	1-13
Table 1-2:	Major Project Components .....	1-13
Table 2-1:	Other Rights, Licences or Permits Related to this Application .....	2-9
Table 3-1:	Water Requirements in the SSA .....	3-3
Table 3-2:	Location of Potential Water Sources in the SSA .....	3-4
Table 3-3:	Pipeline and Facilities Construction Schedule for the SSA.....	3-22
Table 3-4:	District, Type and Length of New Access Roads in the SSA.....	3-33
Table 3-5:	All-Weather Road Requirements in the SSA.....	3-35
Table 3-6:	Summary of Potential Borrow Sites in the SSA .....	3-41
Table 3-7:	Pipeline Segments in the SSA.....	3-47
Table 3-8:	Intermediate Gas Pipeline Block Valve Sites .....	3-57
Table 3-9:	Intermediate Valve Sites on the NGL Pipeline.....	3-57
Table 3-10:	Primary Watercourse Crossings in the SSA .....	3-81
Table 4-1:	Habitat Quality for Key Wildlife Species at the Norman Wells Infrastructure Site.....	4-10
Table 4-2:	Special Status Species That Were Observed or That Might Occur at the Norman Wells Infrastructure Site .....	4-10
Table 4-3:	Potential Use of Habitat at the CCG Barge Landing .....	4-14
Table 4-4:	Estimate of Site Construction Equipment.....	4-16
Table 4-5:	Estimate of Site Operations Equipment.....	4-17
Table 4-6:	Estimate of Fuel Storage.....	4-18
Table 4-7:	Map Coordinates for Site Centroids .....	4-18
Table 4-8:	Estimate of Site Construction Equipment.....	4-26
Table 4-9:	Estimate of Fuel Storage.....	4-27
Table 4-10:	Map Coordinates.....	4-28
Table 4-11:	Fort Good Hope Access.....	4-36
Table 4-12:	Special Status Species That Were Observed or That Might Occur at the Fort Good Hope Fuel Storage and Stockpile Site and Barge Landing Site .....	4-42
Table 4-13:	Estimate of Site Construction Equipment.....	4-48
Table 4-14:	Estimate of Site Operations Equipment.....	4-49
Table 4-15:	Estimate of Fuel Storage.....	4-49
Table 4-16:	Map Coordinates for Site Centroids .....	4-50
Table 5-1:	Earth Material Classification .....	5-2
Table 5-2:	Terminology of Soil Properties and Qualities .....	5-2
Table 5-3:	Ice Content Descriptions.....	5-3
Table 5-4:	Access Roads to Borrow Sites on Land within the Norman Wells Municipal Boundary .....	5-5

Table 5-5:	Access Roads to Borrow Sites on Land within the Fort Good Hope Municipal Boundary .....	5-7
Table 5-6:	Estimate of Site Development and Operations Equipment.....	5-13
Table 5-7:	Map Coordinates of Borrow Site Centroids.....	5-15
Table 5-8:	Habitat Quality for Key Wildlife Species at Borrow Site 7.049P and Associated Access Road .....	5-24
Table 5-9:	Special Status Species That Were Observed or That Might Occur at Borrow Site 7.049P and Associated Access Road.....	5-25
Table 5-10:	Bosworth Creek – Water Quality (Excluding Metals).....	5-28
Table 5-11:	Bosworth Creek – Water Quality (Metals) .....	5-30
Table 5-12:	Potential Use of Bosworth Creek at RPR-301 .....	5-34
Table 5-13:	Habitat Quality for Key Wildlife Species at Borrow Site 7.057P .....	5-45
Table 5-14:	Special Status Species That Were Observed or That Might Occur at Borrow Site 7.057P .....	5-46
Table 5-15:	Habitat Quality for Key Wildlife Species at Borrow Site 7.054P .....	5-61
Table 5-16:	Special Status Species That Were Observed or That Might Occur at Borrow Site 7.054P.....	5-62
Table 5-17:	Bosworth Creek – Water Quality (Excluding Metals).....	5-66
Table 5-18:	Bosworth Creek – Water Quality (Metals) .....	5-67
Table 5-19:	Potential Use of Site RPR-301 – Bosworth Creek.....	5-72
Table 5-20:	Jackfish Creek– Water Quality (Excluding Metals) .....	5-83
Table 5-21:	Jackfish Creek– Water Quality (Metals).....	5-85
Table 6-1:	Pipeline Segments on Land within the Norman Wells Municipal Boundary.....	6-4
Table 6-2:	Estimated Temporary Workspace Requirements.....	6-4
Table 6-3:	Access Roads for Water Sources and Pipeline Construction.....	6-5
Table 6-4:	Watercourse Crossings Along the Pipeline Right-of-Way .....	6-6
Table 6-5:	Pipeline Appurtenances Summary .....	6-6
Table 6-6:	Estimate of Typical Pipeline Construction Equipment.....	6-7
Table 6-7:	Map Coordinates of Pipeline Segments.....	6-9
Table 6-8:	Pipeline Segment M1-NW-Gas (Map Coordinates).....	6-13
Table 6-9:	Access Roads within Pipeline Segment M1-NW-Gas.....	6-14
Table 6-10:	Watercourse Crossings within Pipeline Segment M1-NW-Gas .....	6-14
Table 6-11:	Third-Party Crossings within Pipeline Segment M1-NW-Gas.....	6-15
Table 6-12:	Appurtenances within Pipeline Segment M1-NW-Gas .....	6-15
Table 6-13:	Pipeline Segment M2-NW-NGL (Map Coordinates).....	6-19
Table 6-14:	Appurtenance within Pipeline Segment M2-NW-NGL.....	6-20
Table 6-15:	Estimated Temporary Workspace Requirements.....	6-26
Table 6-16:	Access Roads for Water Sources and Pipeline Construction.....	6-27
Table 6-17:	Watercourse Crossings Along the Pipeline Right-of-Way .....	6-28
Table 6-18:	Pipeline Appurtenances for Lands within the Fort Good Hope Municipal Boundary .....	6-29
Table 6-19:	Estimate of Typical Pipeline Construction Equipment.....	6-30
Table 6-20:	Map Coordinates of Pipeline Segments.....	6-32
Table 6-21:	Access Roads within the Hamlet of Tulita Municipal Boundary .....	6-36
Table 7-1:	Access Road to Norman Wells Compressor Station.....	7-6

Table 7-2:	Predicted Emissions from Project Facilities at the Norman Wells Compressor Station.....	7-8
Table 7-3:	Sulphur Dioxide Ground-Level Predictions at the Norman Wells Compressor Station.....	7-8
Table 7-4:	Nitrogen Dioxide and Oxides of Nitrogen Ground-Level Concentration Predictions at the Norman Wells Compressor Station.....	7-9
Table 7-5:	Carbon Monoxide Ground-Level Concentration Predictions at Pipeline Facilities at the Norman Wells Compressor Station.....	7-10
Table 7-6:	Fine Particulate Matter Ground-Level Concentration Predictions at the Norman Wells Compressor Station.....	7-11
Table 7-7:	Benzene and Total BTEX Ground-Level Concentration Predictions at the Norman Wells Compressor Station.....	7-12
Table 7-8:	Potential Acid Input Predictions at the Norman Wells Compressor Station.....	7-13
Table 7-9:	Greenhouse Gas Emissions from the Norman Wells Compressor Station.....	7-15
Table 7-10:	Habitat Quality for Key Wildlife Species at Norman Wells Compressor Station.....	7-19
Table 7-11:	Special Status Species That Were Observed or That Might Occur at Norman Wells Compressor Station.....	7-20
Table 7-12:	Estimated Site Construction Equipment.....	7-24
Table 7-13:	Location of Activities by Map Coordinates.....	7-25
Table 8-1:	Temperature Normals for the Sahtu Settlement Area.....	8-3
Table 8-2:	Precipitation Normals for the Sahtu Settlement Area.....	8-4
Table 8-3:	Baseline Air Conditions for the Sahtu Settlement Area.....	8-7
Table 8-4:	Summary of Existing Daily Emissions in the Sahtu Settlement Area.....	8-7
Table 8-5:	National and Northwest Territories Greenhouse Gas Emissions.....	8-8
Table 8-6:	Soil Groups in the Sahtu Settlement Area.....	8-9
Table 8-7:	Vegetation Types in the Sahtu Settlement Area.....	8-15
Table 8-8:	Terrestrial Mammal Species with Special Status That Occur in the Sahtu Settlement Area.....	8-16
Table 8-9:	Bird Species at Risk with Special Status That Occur in the Sahtu Settlement Area.....	8-20
Table 8-10:	Summary of Watercourse Types within the Sahtu Settlement Area.....	8-24
Table 8-11:	Sahtu Settlement Area Seasonal Water Quality (2002 to 2004).....	8-25
Table 8-12:	Sahtu Settlement Area Water Quality (2002 to 2004).....	8-27
Table 8-13:	Fish Species Potentially Present in the Sahtu Settlement Area.....	8-32
Table 8-14:	Potential Acid Input Predictions in the Sahtu Settlement Area.....	8-36
Table 8-15:	Greenhouse Gas Emissions in the Sahtu Settlement Area.....	8-37
Table 8-16:	Air Quality Mitigation Strategies.....	8-38
Table 8-17:	Predicted Maximum Noise Levels at 1.5 km, Normal Operations – Little Chicago Facility Site and Norman Wells Compressor Station....	8-40
Table 8-18:	Noise Mitigation Strategies.....	8-41
Table 8-19:	Mitigation Strategies for Soils, Landforms and Permafrost.....	8-48
Table 8-20:	Mitigation Strategies for Vegetation.....	8-55
Table 8-21:	Mitigation Strategies for Wildlife.....	8-61

Table 8-22:	Proposed Mitigation Strategies for Effects on Hydrology.....	8-67
Table 8-23:	Mitigation Strategies for Groundwater.....	8-72
Table 8-24:	Mitigation Strategies for Water Quality.....	8-75
Table 8-25:	Mitigation Strategies for Fish and Fish Habitat.....	8-85
Table 8-26:	Census Counts and Population Estimates for the Sahtu Communities.....	8-91
Table 8-27:	Ethnicity in the Sahtu Communities (2001 Census Count).....	8-92
Table 8-28:	Participation, Employment and Unemployment by Gender in the Sahtu Communities.....	8-93
Table 8-29:	Labour Force by Standard Occupational Categories in the SSA Communities.....	8-95
Table 8-30:	Profile of the Working-Age Population in the Sahtu Communities (1999).....	8-98
Table 8-31:	Employment Income and Income Support Beneficiaries in the Sahtu Communities.....	8-99
Table 8-32:	Transportation Infrastructure in the Sahtu Communities (2001).....	8-100
Table 8-33:	Housing and Repairs Needed in the Sahtu Communities (2001).....	8-102
Table 8-34:	Education Attainment by Gender in the Sahtu Communities (2001) ..	8-108
Table 8-35:	Project Capital Investment in the SSA.....	8-120
Table 8-36:	Estimated Labour Force in the SSA – Before Project Effects.....	8-121
Table 8-37:	Estimated Maximum Potential Labour Pool Available for Project-Related Work in the SSA.....	8-122
Table 8-38:	Estimated Project Employment Demand in the SSA.....	8-123
Table 8-39:	Estimated Project-Related Labour Income in the SSA.....	8-123
Table 8-40:	Estimated Project Effects on the Labour Market in the SSA.....	8-124
Table 8-41:	Annual Average Direct, Indirect, Induced and Total Employment in the SSA.....	8-128
Table 8-42:	Annual Average Direct, Indirect and Induced Labour Income in the SSA.....	8-129
Table 10-1:	SSA Public Involvement Activities.....	10-11
Table 10-2:	SSA Traditional Knowledge Consultation Activities.....	10-22
Table 10-3:	SSA Summary of Community Concerns.....	10-30
Table 11-1:	Spill Report Threshold Quantities.....	11-8
Table 11-2:	Waste Types.....	11-15
Table 11-3:	Examples of Effects of Project -Related Activities on Heritage Resources and Associated Mitigation Measures.....	11-31
Table A-1:	Land Area Requirements.....	A-1
Table B-1:	Proposed Land Use Designation of Development Activities.....	B-1