

APPENDIX 4 – MSL APPLICATION (ACCESS CORRIDOR)

Application for Surface Dispositions

<i>Please Print Or Type</i>	EFR attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					File Number:								
	If No, AOA # _____ or					Confirmation Number:								
	Other: _____					FNC Number: Not Issued								
<input checked="" type="checkbox"/> Mineral Surface Lease [MSL]		<input type="checkbox"/> Licence of Occupation [LOC]			<input type="checkbox"/> Pipeline Installation Lease [PIL]			<input type="checkbox"/> R.E.A. Easement [REA]						
<input type="checkbox"/> Pipeline Agreement [PLA]		Project Name: Grassy Coal					<input type="checkbox"/> Easement [EZE]							
Application:							Transmission Line							
<input type="checkbox"/> Class I [INDEX > 2690]							Length _____ km							
<input type="checkbox"/> Class II [INDEX < 2690]							Kilovolts _____							
Does this application include watercourse crossings regulated under the <i>Water Act</i> (Ministerial) Regulations' Code of Practice for Pipelines and Telecommunication Lines Watercourse Crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, the applicable <i>Water Act</i> Notice must be submitted with this application.														
Applicant: Benga Mining Limited					Client ID: 1008823002			Applicant File Number Grassy Mountain Coal Mine						
Address: PO Box 660, 12331 - 20 Avenue					Tel: <contact information removed>									
City/Province: Blairmore Alberta					Postal code: T0K 0E0			Fax:						
Contact person/Agent as above <input checked="" type="checkbox"/> or:					File:									
Address:					Tel:									
City/province:					Postal code:			Fax:						
Attached: <input checked="" type="checkbox"/> Sketch <input type="checkbox"/> Survey Plan <input type="checkbox"/> As Built					Occupant's consent: <input type="checkbox"/> Attached <input checked="" type="checkbox"/> Not Required									
Purpose of application: <input type="checkbox"/> Wellsite <input type="checkbox"/> Access <input type="checkbox"/> Pipeline <input type="checkbox"/> Powerline <input checked="" type="checkbox"/> Other Coal Mine Access Corridor														
Land being applied for [<i>Attach Schedule if insufficient space</i>]														
Name of Subdivision					Subdivision Plan			Block		Lot	Parcel			
					8910380			1						
Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer	Qtr/LS	Sec	Twp	Rge	Mer
See	Table	2-2												
Are you a Canadian citizen? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Have you attained the age of 18 years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					Are you an employee of the Government of Alberta or member of the Legislative Assembly? <input type="checkbox"/> Yes [<i>Dept/Agency/Board</i>] <input checked="" type="checkbox"/> No				
<Original signed by> Signature _____ Steve Mallyon Print Name					For Internal Use Only Authorization is hereby granted to enter upon and immediately occupy public land as described on this application and in accordance with the plan/sketch submitted to the issuing regulatory body subject to conditions specified in schedule "A": Date _____ \$ _____ Date _____ Authorizer, <i>Public Lands Act</i>									
Approval from	Lands	Forest	F & W	Trans	Parks									Dept. Plan:
Referral Date														Copies for:
Received Date														Municipal Authority
Comments:										Field Services				
										Forest				
										F & W				
										Other				

**Completion of EFR Cover Document
For all Dispositions 2.0
Environmental Field Report (EFR)**

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted 23/09/2016 Department Number _____

_____ dd/mm/yyyy

Site/Project Name: Grassy Mountain Coal Mine

A. Communications

1. Applicant: Benga Mining Limited

2. Company contact person for EFR: Steve Mallyon

Phone: <contact information removed>

3. E-mail: <email address removed>

Cell Phone: (____) ____

4.

5. Company representative who conducted the onsite assessment for the EFR:

Cal Clark

6. Phone: <contact information removed> -

Cell Phone: (____) ____

7. Fax: (____) ____

E-mail: <email address removed>

8. Date of on-site assessment: 2014 to 2016
dd/mm/yyyy

Note: The Regulatory body reserves the option to audit individual EFR's to ensure field visits have been conducted and information supplied is accurate.

B. Surface Location

LSD 04 Sec 14 Twp 008 Rge 04 W 5

To:

LSD 04 Sec 14 Twp 008 Rge 04 W 5

1. Construction is proposed under the following soil conditions (check the box that applies):

Frozen

Non-Frozen

Other (If "Other", explain)

See section 3.2 of Public Lands Act Application document attached.

Proposed construction date: Q3 2017 to Q4 2018
dd/mm/yyyy

2. Specify associated developments/dispositions that may be required as a result of this disposition.

- Power line
- Pipeline
- Compressor
- Metering Station
- Access
- Other LOC for the rail line/load-out and MSL for the mining area (see Public Lands Act Application document)

Land Standing Review

3. A complete Land Standing Review check must be made on the proposed area.

Date Land Standing search was completed: 15/09/2016
dd/mm/yyyy

Reservation/Activity Number	Action required/identify conflicts/contact name and or comments
See Public Lands Act (PLA) Application Table 3-1.	

a. Within a Provincial Grazing Reserve? Yes No

If 'Yes', complete the Provincial Grazing Reserve template and attach to the Environmental Field Report. (Refer to Appendix I in the instruction document.)

b. Within the Chungo Access Management Area? Yes No

If 'Yes', complete the Chungo Area template (located at the end of IL 2005-01 – Annex to Chungo Creek Industrial Access Management Area Information Letter and attach it to the Environmental Field Report.

c. Within a FireSmart Community Zone? Yes No

If 'Yes', contact Forest Protection Division for additional hazard reduction requirements.

d. Follow the "Bear Smart" program to reduce bear-human conflicts and increase public stewardship of black and grizzly bears in Alberta by providing strategies, information and education materials to its staff and contractors, see srd.alberta.ca and search for "Alberta BearSmart"

4. Are Permanent/Research Sample Plots/Rangeland Benchmarks located within 100 m of the boundary of the lands under application? Yes No

If 'Yes', indicate the legal land description and GPS coordinates for each plot/benchmark in relation to the disposition boundary (degree, decimal, minutes).

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

Reservation No. _____ PSP/RSP No. _____ LSD _____ Sec _____ Twp _____ Rge _____ W _____
 Latitude _____ Longitude _____ Distance away _____ m

PSP's held by the Regulatory body appear as DRS or PNT reservations on the LSAS report. The forest industry also has sample plots, and if these are registered, they will appear as ISP's on the LSAS report. If the forest industry sample plots are not registered, they will not appear on the LSAS report. The proponent is responsible for determining if there are any PSP's or ISP's on the land under application. PSP's and ISP's must not be disturbed.

Stakeholders, Other Land Users

5. Is there potential impact on or conflict with stakeholders and other land users? Yes No

If "Yes" to either, please list and explain mitigation:

See Section 3.2.2 and 3.2.3 of the PLA Application for details.

6. What actions have been taken to integrate this disposition with other existing/planned activities and resources to minimize the impacts on the land base? (Check appropriate boxes.)

- Not applicable
- Use common corridor
- Parallel existing clearing/right of way
- Use existing clearing/right of way
- Other

Explain: A majority of the MSL is located on an existing clearing.

7. Identify any aesthetic concerns related to the proposed activity (i.e., negative effects on the aesthetic/sensory aspects of the surrounding land including view, smell, noise, etc.).

- Not applicable
- From public access
- From residence
- From recreation facility
- Other _____

Explain: No aesthetic concerns have been raised related to the access corridor in this area.

8. Are there any conflicts with Access Management Plans, Integrated Resource Plans or policy documents for the area? Yes No

If 'Yes', explain mitigation strategy: Land and resource use planning is discussed further in Section 3.2.6 of the PLA application.

9. Was First Nations (Aboriginal) consultation required by the Regulatory body? Yes No

If "Yes", with whom: See Section 3.2.7 of the PLA Application for a list of First Nations groups who were consulted.

C. Wildlife/Environmental Concerns

1. Within a Key/Critical Wildlife Zone? Yes No

If 'Yes', provide information on mitigation strategies that will be implemented: See Section 3.3.1 of the PLA Application.

2. Wildlife Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From See Section 3.3.2 of the PLA Application To _____ (See Provincial Timing Guidelines or FW referral maps.)

3. Fisheries Timing Constraint apply? Yes No

If 'Yes', provide dates of restricted period: From _____ To See Section 3.3.2 of the PLA Application (See Provincial Watercourse Codes of Practice for restricted periods.)

4. Within a Caribou Area? Yes No. If 'Yes', specify the Caribou Protection Plan number and name.

Species at Risk (Plant/Animals)

5. Is it likely that a species at risk (not including Woodland Caribou in number 4 above) will be found in the area of the proposed development? Yes No

If 'Yes', specify the status and protective strategy for each species: For further details on species at risk within the proposed activity, see Section 3.3.3 of the PLA Application.

<p>Species 1 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 2 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
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<p>Species 3 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>	<p>Species 4 _____</p> <p><input type="checkbox"/> Endangered</p> <p><input type="checkbox"/> Threatened</p> <p><input type="checkbox"/> Special Concern</p> <p><input type="checkbox"/> At Risk</p> <p><input type="checkbox"/> May Be At Risk</p> <p>Explain any conflict and proposed mitigation</p> <p>_____</p>
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Alberta Fish and Wildlife Division recommends predevelopment inventory be conducted on all native grasslands habitats within the Grassland Natural Region due to high concentration of Species at Risk and limited site specific information on occurrences.

6. Has a pre-development Species at Risk inventory been completed to alert the applicant of any wildlife concerns related to this project? Yes (copy of inventory attached) No

If 'No', explain: See Section 3.3.3 of the PLA Application

Has the activity been assessed to ensure it does not negatively affect any species at risk? Yes No

If 'No', explain: The project has been assessed to determine its effect on species at risk and mitigation measures have been suggested to reduce adverse effects. Additional details are presented in Section 3.3.3 of the PLA Application.

8. If Access Restrictions apply, include legal land description and explain mitigation measures.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Explain mitigation strategy: _____

9. If within or adjacent (within 100 m) to a *Protected Area*, indicate the type of protected area and explain what measures will be taken to avoid conflict with the protected area.

Natural Area Ecological Reserve Park Other Crown reservations as discussed in Section 3.2.1 of the PLA Application.

Name of protected area: _____

Explain mitigation strategy: _____

10. Are there any environmentally *sensitive areas* in the vicinity (within 100 m) of the proposed activity that will require special measures to protect? Yes No

If 'Yes', list and explain: See Section 3.3.1 of the PLA Application for additional details.

11. Is the proposed activity within a permafrost area? Yes No

If 'Yes', specify the Permafrost Protection Plan number and name: _____

D. Historical Resources

Date search completed A Historical Resource Impact Assessment was undertaken as part of the EIA. See Section 3.4 of the PLA Application.

dd/mm/yyyy

What is the Historical Resource Value (HRV) of the affected lands?

Not Listed 1 2 3 4 5

If HRV is 1-5, an 'Application for Historical Resources Act Clearance' must be submitted to the Cultural Facilities and Historical Resource Division (CFHRD) of Alberta Community Development.

Date submitted 05/08/2016

dd/mm/yyyy

Note: Activities on land that has an HRV or 4 or 5 may require a Historical Resources Impact Assessment (HRIA).

E. Vegetation and Timber Cover

Vegetation (check all that apply)

Native grassland

Treed wetland

Deciduous-dominant forest:

Tame pasture

Shrubby wetland

("D" less than 30% coniferous trees)

Cropland

Grass or grass-like wetland

Coniferous-dominant forest:

Sparsely or non-vegetated

Native aspen parkland

("C" more than 70% coniferous trees)

Cutblock – planted

Other (specify) Grass Meadow. Mixedwood forest:

Natural regeneration >2 m

("CD" 70% to 50% coniferous trees)

("DC" 50% to 30% coniferous trees)

Timber Salvage

1. Merchantable timber present? Yes No

Provide a volume inventory as follows:

Coniferous approx. volume m³ or <1 number of loads

Spruce 10% Pine 87% Other 3 %

Deciduous approximate volume m³ or <1 number of loads

Aspen 100 % Other 0 %

2. Specify the timber disposition or FMA(s) shown on LSAS.

No disposition (Contact the Regulatory body)

Disposition number of FMA: No FMA, see Table 3-2 of PLA Application for lease and permit holders, holder name _____

3. Utilization standards:

Coniferous 15 cm stump diameter to a 11 cm top diameter.

Deciduous 15 cm stump diameter to a 11 cm top diameter.

4. Timber salvage waiver requested? Yes No

If 'Yes', provide justification: _____

5. Provide the name of the salvage purchaser See Section 3.5 of the PLA Application, or check one of the following:

Not known at this time

By TM88 (or equivalent)

By Timber permit

6. When will the salvage be removed/hailed from the site to a wood processing plant?

Proposed date start: 01/07/2017
dd/mm/yyyy

Proposed date complete: 01/12/2018
dd/mm/yyyy

Notes: The operator is responsible for moving the salvage to a site that is accessible to ensure all the wood can be removed. This may require forwarding the wood to a site with all-weather access.

A copy of the TM88 or equivalent must be submitted to the the Regulatory body to ensure proper tracking of ownership, transport and manufacturing can occur.

F. Soil and Vegetation Management

Soil salvage, storage, replacement, and handling procedures shall be in keeping with those outlined in *Section 6 “Site Disturbance, Clearing and Soil Management,”* of the *“Public Lands Operational Handbook”*.

Note: Projects on specific areas of public land may require a soil survey. The proponent is to identify such requirements during the planning process.

Are there soil sensitivities (i.e., shallow depth to water table; shallow depth to bedrock; soils are gravely or stony, etc.)? Yes No

Explain: See Section 3.6.1 of the PLA Application for details on soil sensitivities.

Surface expression (i.e., topography). See Section 3.6.1 of the PLA Application for details on project area topography.

Site drainage (i.e., drainage is very poor, poor, imperfect, moderately well, well, rapid, or very rapid)

See Section 3.6.1 of the PLA Application for details on site drainage.

Are there problem vegetation/weeds/invasive species on or near site at time of assessment?

Yes No **Explain** Problem vegetation/weeds/invasive species are discussed further in Section 3.6.2 of the PLA Application.

Identification of species, degree of infestation and approximate amount of area infested per species.

	Species 1	Species 2	Species 3
Trace (rare)		Refer to Section 3.6.2 of the PLA Application.	
Low (occasional)			
Moderate (scattered plants)			
High (fairly dense)			

Is there a risk of weed spread to the site if development proceeds?

High Moderate Low

If any risk, provide details in reclamation and construction sections of supplements.

If high or moderate, show location on the application plan.

G. Incidental Activities

The applicant is to identify and outline on the application plan any incidental activities required for temporary use.

Note: No additional approval is required for incidental activities that are applied for with the disposition and included in the plan.

If the incidental activity is *not approved* under the disposition, a separate approval is required. Incidental activities approved in this manner are for temporary use only and are *not* part of the surface disposition.

1. According to field assessment, will additional incidental clearings be required? Yes No
If 'Yes', indicate the purpose:

- Campsite Borrow Pit Salvage Deck
 Temporary Workspace Backslope Temporary Access
 Other Incidental activities are discussed further in Section 3.7 of the PLA Application

2. Are any additional clearings planned in reforested areas? Yes No
If 'Yes', explain _____

The Core Operating Conditions are standard practices that must be applied to all activities.

H. Core Operating Conditions

Prior to Entry - Confirmation Number

099 The holder shall contact and advise Regulatory body of its intentions:

- prior to entry upon the lands for a stated purpose,
- prior to any additional construction during the term of this authority,
- at the completion of operations or construction, and
- upon abandonment of this activity.

Upon contact prior to initial entry on the land, the Regulatory body shall issue a confirmation number that shall be maintained on file by the holder and be provided to the Regulatory body on request.

<Location & Telephone No.> _____

Adverse Ground Conditions

105 Any activity on the land during adverse ground conditions must be suspended if the activity is likely cause unacceptable damage to vegetation or soil, as may be determined by the holder or the Regulatory body.

Sample Plots

108 No entry is allowed within the boundaries of any research or sample plot.

Reclamation - Interim

127 The holder shall reclaim all disturbed land surfaces within two growing seasons. Interim reclamation, including site and debris clean-up, slope stabilization, recontouring with subsoil, and spreading of topsoil shall be done progressively and concurrently with operations.

Reclamation - Final

128 Final surface reclamation must meet the requirements for the specific activity in place at the time of abandonment.

Noxious Weeds

131 The holder shall cut, keep down and destroy all noxious weeds and restricted weeds as per the *Public Lands Act*.

Waste Material Disposal

135 The holder shall remove all garbage and waste material from this site to the satisfaction of the Regulatory body, in its sole discretion.

Watercourse/Water Body - No Material to be Deposited

148 The holder shall not deposit or push debris, soil or other deleterious materials into or through any watercourse or water body or on the ice of any watercourse/water body.

Erosion Prevention

158 The holder shall take all precautions and safeguards necessary to prevent soil and surface erosion to the satisfaction of the Regulatory body in its sole discretion.

Natural Drainage - No Interruption

161 The holder shall not create any interruptions to natural drainage, including ephemeral draws that may result in blockage of water flow.

Sites and Installations 3.0 Completion of Supplement A Environmental Field Report (EFR)

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted: 23/09/2016
dd/mm/yyyy

MSL Number _____

PIL Number: _____

Site/Project Name: Grassy Mountain Coal Project

Legal land description: LSD 04 Sec 14 Twp 008 Rge 04 W 5

A. Site Description

1. Stability concerns: Yes No If 'Yes', explain mitigation: _____

Questions 2, 3, 4 and 5 of section A apply to MSL only. The "Wellsite Spacing Recommendations" may be used as a guide, search for "Wellsite Spacing Recommendations" on srd.alberta.ca.

2. Well type: Oil Sweet Gas Sour Gas (H²S) Coalbed Methane Single Well pad Multi-well pad

Other Access corridor as described in Section 6.1 of the Application

3. Well depth: N/Am

4. Flare requirements for drilling: 50 m 35 m 25 m

Flare pit Flare tank Flare stack

5. Number of zones to be completed/produced N/A Inter-well spacing N/A m.

B. Vehicle/Equipment Access

How will the site be accessed? (Check boxes that apply)

By an existing access held under disposition or jurisdiction (specify name, disposition number, and owner):
Access is discussed in Section 6.2 of the PLA Application.

New application (LOC)

New access included in this application.

Note: If access is part of the site and installation application, an access supplement must be submitted.

C. Contamination Prevention

1. Is the boundary of the site located within 100 m of a watercourse? Yes No

If 'Yes', specify distance from edge of lease to top of breaks in meters See below

Explain mitigation strategy if within 100 meters No activities will occur within the bed and bank of the watercourse. The overland conveyor is covered and the access road will be constructed in accordance with the Water Act Code of Practice for Watercourse Crossings

2. Will the site be diked during drilling? Yes No During production? Yes No

If 'No', explain why not. N/A

Will other methods of on-site contamination prevention be required? Explain See Section 6.1 in PLA Application.

Applicable to MSL only

D. Sump

Type of sump (check appropriate box): On-site pit Above-ground tank on site
 In-ground tank on site Remote sump

Remote sump location: LSD _____ Sec _____ Twp _____ Rge _____ W _____

Private land Public land (if location known, indicate on the survey plan)

GPS coordinates: (deg/min/decimal) NAD83 Latitude _____ Longitude _____

Proposed mud type: Hydrocarbon: _____ Salt base: _____ Gel chem: _____

Other: N/A

Applicable to MSL only

Disposal

Estimate volumes to be disposed of: Solids _____ m³ Liquids _____ m³

Proposed disposal method: Mix/bury/cover Land spreading Land farming Pump-off

Disposal on forested public land

Other N/A Approximate date of disposal _____

Private Land

Public Land

Indicate land farming or land spreading location if off site on public land.

LSD _____ Sec _____ Twp _____ Rge _____ W _____

Applicable to MSL only

E. Source of Water

1. Water Required: Yes No Water well on lease
2. Offsite source: Offsite water well Lake Stream River
 Other (specify type) _____

Location: LSD _____ Sec _____ Twp _____ Rge _____ W _____

3. Access required to water source? Yes No If 'Yes' attach a sketch.
-

F. Construction Strategy

1. Vegetation Removal

Explain: See Section 6.7 of the PLA Application

2. Brush Disposal

Explain: See Section 6.7 of the PLA Application

3. Topsoil handling: (Check appropriate boxes) No stripping Minimum surface disturbance
 Stripping Single Lift Two Lift Other (Explain) See below

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 6.7 of the PLA Application.

4. Will padding of the wellsite be required? Yes No,
If 'Yes' Explain: N/A - no wellsite is proposed
-

G. Reclamation Strategy

Revegetation strategy: (Check appropriate boxes) Natural Recovery Native Seed
 Non-native Seed Other See Section 6.8 of the PLA Application

Interim: The reclamation strategy for the access corridor is discussed in Section 4.7 of the PLA Application.

Production/Operation: The reclamation strategy for the access corridor is discussed in Section 6.8 of the PLA Application.

Applicable to MSL only

See Appendix III - Lease Description and Wellsite Sizing Information

Note: Complete and attach the lease description and wellsite sizing template (in the Appendix) if a non-standard wellsite is required as per the lease description and wellsite sizing document (see instructions).

Operating Condition

Contamination Prevention

136 In addition to complying with Federal, provincial and local laws and regulations respecting the environment, including release of substances, the holder shall, to the regulatory body's satisfaction, take necessary precautions to prevent contamination of land, water bodies and the air with

particulate and gaseous matter, which, in the opinion of the regulatory body in its sole discretion, is or may be harmful.

**Access
4.0 Supplement B
Environmental Field Report (EFR)**

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted 23/09/2016
dd/mm/yyyy

LOC Number _____

Legal land description: From: LSD 04 Sec 14 Twp 008 Rge 04 W 5
To: LSD 04 Sec 14 Twp 008 Rge 04 W 5

Note: The Pre-disturbance Planning and Surface Access Management sections of the Public Lands Operational Handbook should be consulted when dealing with new access development, extensions or upgrading existing access. Before a road is approved, the applicant may be requested to present the advantages and disadvantages on any alternate proposals, the rationale for selecting a particular route and the trade-offs made.

A. Type of Access/Dimensions

1. Initial access width 15 m and type of access:

- undeveloped dry
- undeveloped frozen
- dry weather
- all-weather (permanent)
- NA

Explain: During construction the site will be accessed via an existing road. See Section 6.1 of the PLA Application.

2. Final access width 10 m as applied for and type of access:

- undeveloped dry
- undeveloped frozen
- dry weather
- all-weather (permanent)

Explain: A new all weather access road will be constructed, see Section 6.1 of PLA Application.

Notes: For winter access it is recommended that existing seismic lines be used for initial access to a location. Widening of these lines should be minimized. Minimal widths for initial access are to be used wherever possible. Once a well or development is considered viable, the applicant generally plans to move to a wider ROW (e.g. 20m) for development of a high grade road. In this case, the 20m width can be applied for with the understanding there will be no additional clearing beyond the 8-10m width indicated until the development is proven viable.

If the entire ROW is cleared initially and then not required for the development, it will be treated as Unauthorized use of public land and appropriate enforcement action will be taken.

If electricity is required at a facility, the **ROW** must be planned to ensure the power line is located on the downwind side. This is required to maximize the tree-free area adjacent to the power lines, thus reducing the potential of falling trees hitting the power line and possibly starting a wildfire, as well as, cutting off power to the facility.

Where a road, pipeline, and power line **ROW** are required, it is recommended the power line be located between the road and pipeline. This greatly reduces the clearing requirements and keeps the power line safe from falling trees.

B. Topography

1. Mark more than one box to show range:

- Level (0-2%)
- Gentle (3-10%)
- Moderate (11-15%)
- Steep (16-30%)
- Very steep (over 30%)

Explain: Topography within the proposed activity area is presented in Section 6.3 of the PLA Application.

C. Watercourse Crossings

Avoidance, Minimizing and Mitigation/Compensation, in that order, are considerations for watercourse crossings. See the instructions for additional explanation.

1. Will watercourse crossings be installed? Yes No. (If 'No', go to next section).
If 'Yes', number the watercourse crossings on the survey plan and complete the table below.

Note: All licences, authorizations and approvals issued by the Regulatory body under the *Public Lands Act, Forests Act, Environmental Protection and Enhancement Act and Water Act*, should not be taken to mean the proponent (applicant) has complied with federal legislation. Proponents should contact Fisheries and Oceans Canada in the location nearest to them (Peace River, Edmonton, Calgary, Lethbridge) in relation to the application of federal laws, including but not limited to the *Navigable Water Protection Act* and the *Fisheries Act (Canada)*.

Crossing Number	Crossing Method	Culvert/Bridge Size Diameter (mm) x length (m)	Water-course Size Class (1-4)	LSD	Sec	Twp	Rge	Mer	Specify if restricted activity period (dd/mm/yyyy)	Class of Waterbody from COP (A,B,C,D)
1	Initial CU	culvert X unknown	2	04	14	008	04	5	From May 1	B
	Final CU								To August 15	
	Initial	X							From	
	Final								To	
	Initial	X							From	
	Final								To	

2. Temporary watercourse crossings will be removed by _____
dd/mm/yyyy

Note: Temporary crossings must not be installed or existing ones removed during restricted activity periods unless clean flow can be maintained. Crossings installed during winter work should be removed prior to spring break up.

D. Construction Strategy

Plan attached (*include all areas of existing clearing(s) and new clearing(s) to be used, and their dimensions*)

1. Vegetation removal: Explain: See below.

2. Brush disposal: Explain: See below

3. Topsoil handling/Topsoil stripping width: (Check the appropriate boxes for initial and final access)

Minimal surface disturbance (no stripping)

Stripping **Single Lift** **Two Lift** **Other** See below

Explain if more than one box has been checked. See below

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 6.7 of the PLA Application. A figure showing existing clearing and new clearings required is provided in the PLA Application as Figure 6-1.

E. Reclamation Strategy

Revegetation strategy: (Check appropriate boxes)

Natural recovery **Native seed** **Non-native seed** **Other** See Section 6.8 of the PLA Application

Interim: The reclamation strategy for the access corridor is discussed in Section 6.8 of the PLA Application.

Production/Operation: The reclamation strategy for the access corridor is discussed in Section 6.8 of the PLA Application.

**Easement
6.0 Supplement D
Environmental Field Report (EFR)**

The cover document and the appropriate supplement form must be submitted for each surface disposition application. All blanks must either be filled in or 'N/A' noted where applicable.

Failure to fill out the document and form(s) completely will result in the EFR being rejected.

New Revised

Date Submitted 23/09/2016
dd/mm/yyyy

EZE/VCE Number _____

VCE Application – provide related disposition (EZE) number _____

Legal land description: From: LSD 04 Sec 14 Twp 008 Rge 04 W 5

To: LSD 04 Sec 14 Twp 008 Rge 04 W 5

A. Right-of-Way:

Will vegetation control be required beyond the right-of-way indicated?

Yes No. If 'Yes', Explain _____

B. Wildfire Prevention Strategy

1. Type of power line:

Above-ground line Buried cable (Powerline Hazard Assessment Plan [PHAP] is not required.)

2. Is the proposed line located within the Forest Protection Area? Yes No.

If 'Yes', a PHAP must be attached (see Appendix IV in the instruction manual).

3. Will the power line be within 10 km of a community within the Forest Protection Area? Yes No

If 'Yes', identify the community Blairmore Alberta

Note: Proposed power lines located within 10 km of a community will generally require a more comprehensive hazard assessment plan than power lines located in other areas within the Forest Protection Area.

C. Method of Vehicle/Equipment Watercourse Crossings

1. Type of access (check the appropriate boxes)

Undeveloped dry

Undeveloped frozen

Dry weather

N/A

Will watercourses be crossed by vehicle/equipment? Yes No.

Avoidance, Minimizing and Mitigation/Compensation, in that order, are considerations for watercourse crossings. See the instructions for additional explanation. Watercourse/water body crossings must meet the requirements of the *Water Act* Codes of Practice.

2. Will watercourse crossings be installed? Yes No. If 'No', go to next section.

If 'Yes', number the watercourse crossings on the survey plan and complete the table below.

Crossing Number	Crossing Method	Culvert/Bridge Size Diameter (mm) x length (m)	Water-course Size Class (1-4)	LSD	Sec	Twp	Rge	Mer	Specify if restricted activity period (dd/mm/yyyy)	Class of Waterbody from COP (A,B,C,D)
1	Initial CU	clear span X unknown	2	04	14	008	04	5	From May 1	B
	Final CU								To August 15	
	Initial	X							From	
	Final								To	
	Initial	X							From	
	Final								To	

3. Temporary watercourse crossings will be removed by NA
dd/mm/yyyy

During restricted activity periods, temporary crossings must not be installed or existing ones removed unless clean flow and fish passage can be maintained. Additional approvals will be required from the federal Fisheries and Oceans Canada if in-stream work is proposed during the restricted activity period. Crossings installed during winter work should be removed prior to spring break up.

Note: All licences, authorizations and approvals issued by the Regulatory body under the *Public Lands Act, Forests Act, Environmental Protection and Enhancement Act and Water Act*, should not be taken to mean the proponent (applicant) has complied with federal legislation. Proponents should contact Fisheries and Oceans Canada in the location nearest to them (Peace River, Edmonton, Calgary, Lethbridge) in relation to the application of federal laws, including but not limited to the *Navigable Water Protection Act* and the *Fisheries Act* (Canada).

D. Construction Strategy

1. Vegetation removal: Explain See below
2. Brush disposal: Explain See below
3. Topsoil handling/Topsoil stripping width: (Check the appropriate boxes for initial and final access)
 - Minimal surface disturbance (no stripping)
 - Stripping
 - Single Lift
 - Two Lift
 - Other Explain See below

Explain if more than one box has been checked: _____

Additional details: The proposed construction strategy, including vegetation/brush removal and topsoil handling, is discussed in Section 6.7 of the PLA Application.

E. Reclamation Strategy

Revegetation strategy: (Check appropriate boxes)

Natural recovery

Native seed

Non-native seed

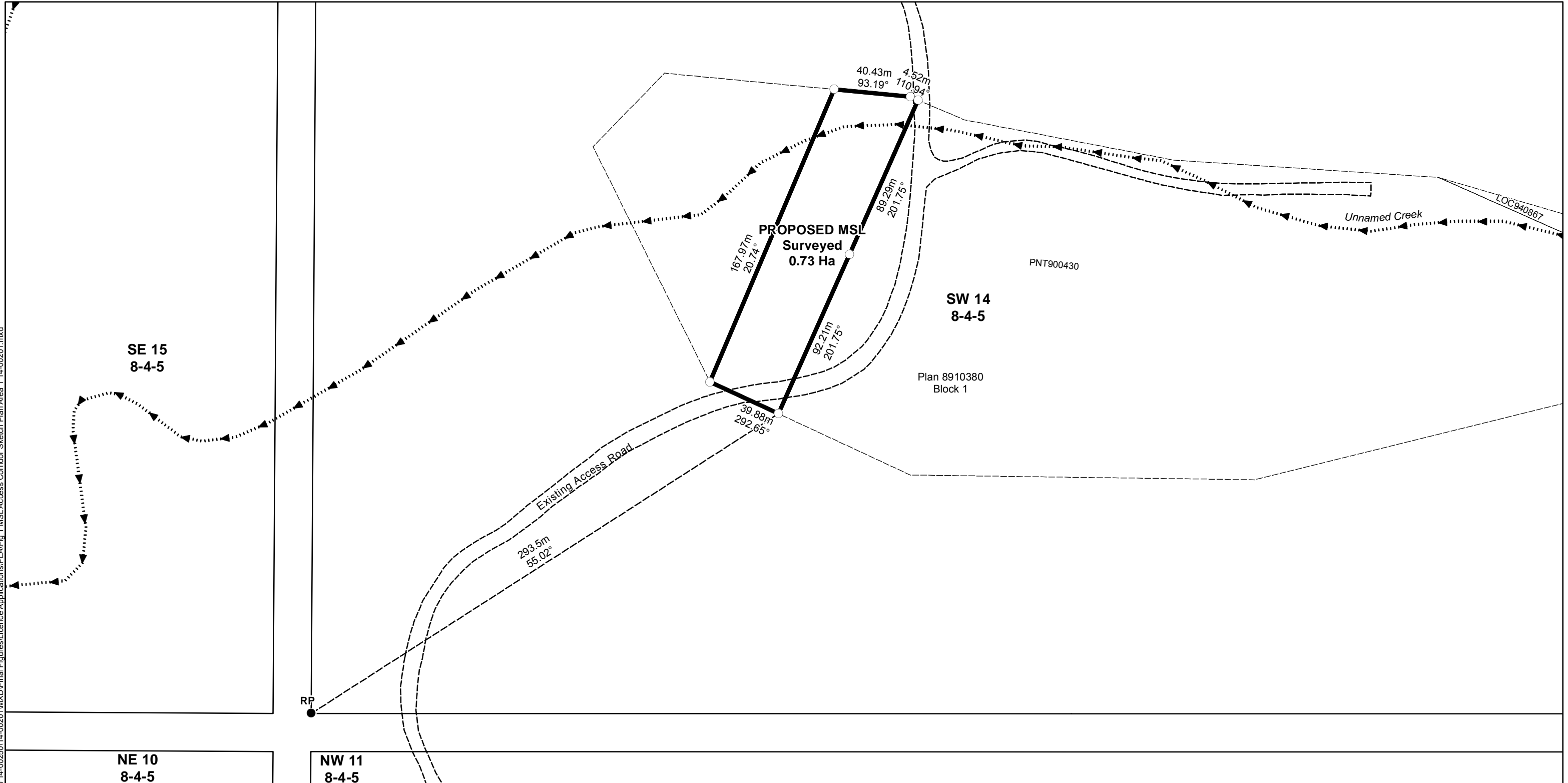
Other The reclamation strategy for the access corridor is discussed in Section 6.8 of the PLA Application.

Note: It is recommended the proponent consult with the local Land Manager/Officer and/or affected disposition holders, where relevant (e.g. existence of FMA's), to assist in determining the appropriate revegetation strategy.

Interim: The reclamation strategy for the access corridor is discussed in Section 6.8 of the PLA Application.

Production/Operation: The reclamation strategy for the access corridor discussed in Section 6.8 of the PLA Application.

Document Path: K:\Active Projects\2014\AP 14-00201 to 14-00250\14-00201\MXD\Final\Figures\Licence Applications\PLA\Fig 1 MSL Access Corridor Sketch Plan Area 1 14-00201.mxd

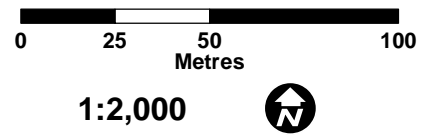


- LEGEND**
- Deflection Point
 - Reference Point
 - Reference Point Tie Line
 - Creek (Flow Direction)
 - ▭ Proposed Disposition Boundary
 - ▭ Disposition
 - ▭ Section Boundary

BENGA MINING LIMITED
 SKETCH PLAN OF
**PROPOSED MINERAL SURFACE LEASE (MSL) FOR
 ACCESS/OVERLAND CONVEYOR/POWERLINE CORRIDOR**
 WITHIN PLAN 8910380 BLOCK 1

AREA REQUIRED ON SURVEYED LANDS: 0.73 Ha
AREA REQUIRED ON UNSURVEYED LANDS: 0.00 Ha

PLAN PREPARED BY MILLENIUM EMS SOLUTIONS LIMITED



PROJECT: 14-00201
 DRAWN BY: JL
 CHECKED BY: KY
 DATE: SEPTEMBER 21, 2016
 Data Sources: AltaLIS, 2016; MEMS, 2016
 Datum/Projection: UTM 3TM Nad 83

Disclaimer: This figure was derived from multiple data sources and while we make every effort to assure its' accuracy, Millennium EMS Solutions Ltd. disclaims any representation or warranty and assumes no liability either for any errors, omission or inaccuracies that may occur.

Public Land Standing

Selection Criteria

Selected Sections

Geo-Administrative Area:	Y
Requested Lands:	Y
Title Information:	N
Activity Details:	Y
Subdivisions:	NA
Client List:	Y

Selected Activities

Surface Dispositions	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Geophysical	NA	Status:	All
		Types:	All
Reservations	Y	Status:	Number Assigned, Application, Letter of Authority, Land Amendment Application, Letter of Authority for Amendment, Active/Disposed, Cancelled - Outstanding Obligation
		Types:	All
Encumbrances	Y	Status:	All
		Types:	All
Land Postings	Y	Status:	Number Assigned, Open, Closed
		Types:	All

Land Keys

W5-04-008-14-SW

Public Land Standing

Requested Land

Requested Land	Ownership Status	Administered By	Titled Status	Survey Status	Area in Hectares		Area in Acres		Water
					Land	Title	Land	Title	
W5-04-008-14-SW	Freehold	FRH-SUB	Titled	Surveyed	0.000	0.000	0.00	0.00	No Water Coverage
<i>Remarks: SUB 20.53 8910380 (4717GEN) BLK 1</i>									
<i>FRHOLD 0.00 BALANCE</i>									
TOTAL					0.000	0.000	0.00	0.00	

Geo Administrative Areas

ALBERTA ENERGY REGULATOR W5-04-008	SOUTH REGION	Code: AER-S
COAL DEVELOPMENT REGION W5-04-008-14	SETTLED	Code: CDR-1
ENVIRONMENT CORPORATE REGION W5-04-008	SOUTHERN	Code: ENV-1
ENVIRONMENT CONS. & RECL. DISTRICT W5-04-008	NO. 20	Code: ERD-020
EASTERN SLOPE ZONE W5-04-008		Code: ESZ
FOREST MANAGEMENT UNIT W5-04-008-14	SOUTHWEST	CO2 SOUTHERN ROCKIES Code: FMU-C-52
FISH & WILDLIFE ADMIN REGION W5-04-008	SOUTHERN REGION	BLAIRMORE Code: FWA-1-02
FISH AND WILDLIFE DISTRICT W5-04-008	SOUTHERN REGION	BLAIRMORE Code: FWD-1-09
FISH & WILDLIFE REFERRAL LANDS W5-04-008-14		Code: FWR
GENERAL LANDS CLASSIFICATION W5-04-008-14	WHITE	Code: GLC-W

Public Land Standing

GRAZING ZONE	A2		Code: GRZ-A2
W5-04-008			
INTEGRATED RESOURCE PLAN	LIVINGSTONE-PORCUPINE HILLS		Code: IRP-L2
W5-04-008-14			
LAND USE AREA	SOUTHWEST 1	BLAIRMORE	Code: LUA-SW1-2
W5-04-008			
MUNICIPAL DISTRICT	RANCHLAND NO. 66		Code: MD-066
W5-04-008-14			
OPERATIONAL APPROVAL DISTRICTS	South Saskatchewan Region	South Saskatchewan District	Code: OPD-5-1
W5-04-008			
RANGELAND DISTRICT	SOUTHWEST	PINCHER CREEK	Code: RLD-SW-6
W5-04-008-14			
REGIONAL PLANNING COMMISSIONS	OLDMAN RIVER		Code: RPC-02
W5-04-008			

End of Geo Administrative Areas

Public Land Standing

Activities and Titles

Activity Land	Status/Type	Date	Expiry	Client Metes and Bounds Remarks	Acres	Total Area Hectares
LOC 940867	Letter of Authority for Amendment	1999/12/17	2019/06/23		5.54	2.243

CANADIAN NATURAL RESOURCES LIMITED

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): DIMENSION: 15 M
 WITHIN 100M OF WATERBODY (Y/N): N PURPOSE: ACCESS ROAD
 CLIENT FILE NO:1788

PLAN NO	LTO PLAN NO	ITEM	VERSION DATE(S)
45069 MS			2000/02/04

W5-04-008-14-SW (0.70) (0.283)

TFA 134555	Active/Disposed	2013/07/15	2014/07/15
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BENGA MINING LTD.

ACTIVITY DETAIL INFORMATION

OPTION TO PURCHASE (Y/N): DIMENSION:
 WITHIN 100M OF WATERBODY (Y/N): PURPOSE: EDUCATIONAL/RESEARCH ACTIVITY
 CLIENT FILE NO:

NO PLANS			
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W5-04-008-14-SW (0.00) (0.000)

Client List

Activity	Client ID	Name / Address	Province	Country	Postal Code
LOC 940867	8012211-001	CANADIAN NATURAL RESOURCES LIMITED 855 2 ST SW SUITE 2100 CALGARY	Alberta	CANADA	T2P 4J8
TFA 134555	1008823-002	BENGA MINING LTD. 4300 B ST STE 307 ANCHORAGE	Alaska	UNITED STATES	99503-593

Total Activities: 2

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