

Amended

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VANCOUVER, B.C.

ASSESSMENT REPORT

on the

MAX PROJECT

Trout Lake Area, Revelstoke Mining Division

Map No. 82K/12E

Latitude 50 38' Longitude 117 36'

Owner: FortyTwo Metals Inc.

Operator: Roca Mines Inc.

Date: January 20, 2006

Author: John Mirko

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VANCOUVER, B.C.

EVENT NO. 4061604

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SUMMARY

A number of physical work and technical programs including portal, underground rehabilitation, settling pond construction, tailings dam site geotechnical testing, road repair, line cutting, slashing of diamond drill stations underground, ventilation and electrical installations underground, acid rock and metal leaching reviews, drilling, archaeology and wildlife studies etc. were carried out on the MAX Project from March to December 2005.

This report will include details on underground work, road repair, line cutting, flora, fauna and archaeology only.

WORK DESCRIPTIONS

Underground

A program of underground rehabilitation was carried out to gain access to old workings and prepare them for a diamond drill program. This included removing over 1500 cu. Metres of material to expose the portal, scaling and stabilization of the portal, installation of steel sets and gate at the portal. The underground drift (over 1300m) was rehabilitated to accommodate new ventilation and operate a locomotive on rail. Over 500 cu. Metres of rock was slashed out to provide room at four locations for an electric powered diamond drill.

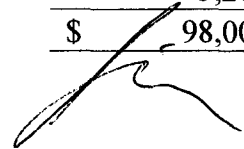
Surface

About 1500 metres of line was cut to facilitate surveying above the ore zone on the ridge of Trout Mountain in winter conditions. Roads near the portal and tailings pond sites and up to the ridge were rehabilitated in the spring and summer (+4km). Archeology, plant and wildlife studies were also completed and are attached as appendices.

A small mine camp facility for use by miners and management was also constructed.

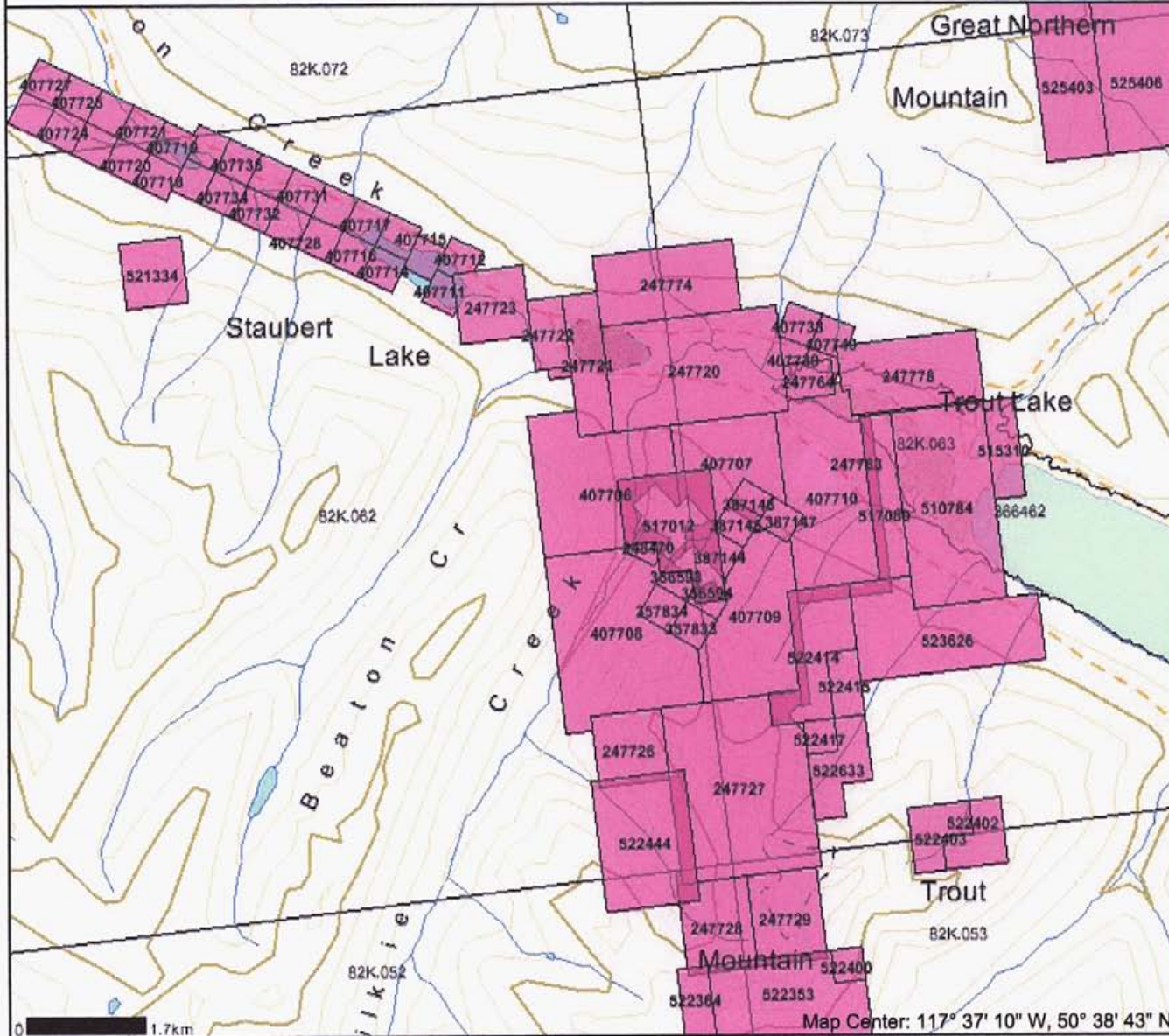
ITEMIZED COST STATEMENT – MAX PROJECT

Underground Rehabilitation, Slashing		
- Labour & Supervision – 5 men @\$400 x 22 days	\$	44,000
- Supplies		4,200
- Equipment and Rentals		15,000
- Transportation		3,000
- Room and Board – 5 men @ \$80 X 22 days		8,800
Road Repair		
- Equipment (D4 Dozer, 215 Excavator X 5 days)		8,000
- Culverts		3,000
Line Cutting – 1,500 metres all in		6,800
Archaeology Study		1,000
Flora & Fauna Study		1,000
Site Camp and Office		3,200
	\$	<u>98,000</u>



Map created Tue Jan 17 16:33:13 PST 2006

Legend



- Indian Reserves
- National Parks
- Parks
- Mineral Tenures Reserves (Sites)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Mining Divisions
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Areas Exclusion
- Areas Indefinite Contours
- Annotation (1:250K)
- Transportation - Points (1:250K)
- Airfield
- Anchorage - Seaplane
- Ferry Route
- Helipad
- Seaplane Base
- Air Field
- Airport
- Air Feature - Condition Unknown
- Airport Abandoned
- Transportation - Lines (1:250K)
- Ferry Route
- Aerial Cableway
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 3 Lanes
- Road - Paved,lanes,2or More,Divided
- Road (Paved Undivided) - Not Elevated - 1 Lane
- Road (Paved Undivided) - Not Elevated - 2 Lanes
- Road - Paved,lanes,3or More,Undivided
- Road (Unimproved)
- Road - Loose,access,Dry Weather
- Road (Winter Road)
- Road - Paved,lanes,2,Undivided
- Road - Paved,lanes,2,Undivided,U/C
- Road - Paved,Divided,access,Non Standard
- Track - Cart/Tractor
- Causeway (Railway)
- Cut (Roadway)
- Trail
- Tunnel

Scale: 1:88,219

DO NOT USE FOR NAVIGATION

Map Center: 117° 37' 10" W, 50° 38' 43" N

MAX PROJECT - CLAIM LOCATION

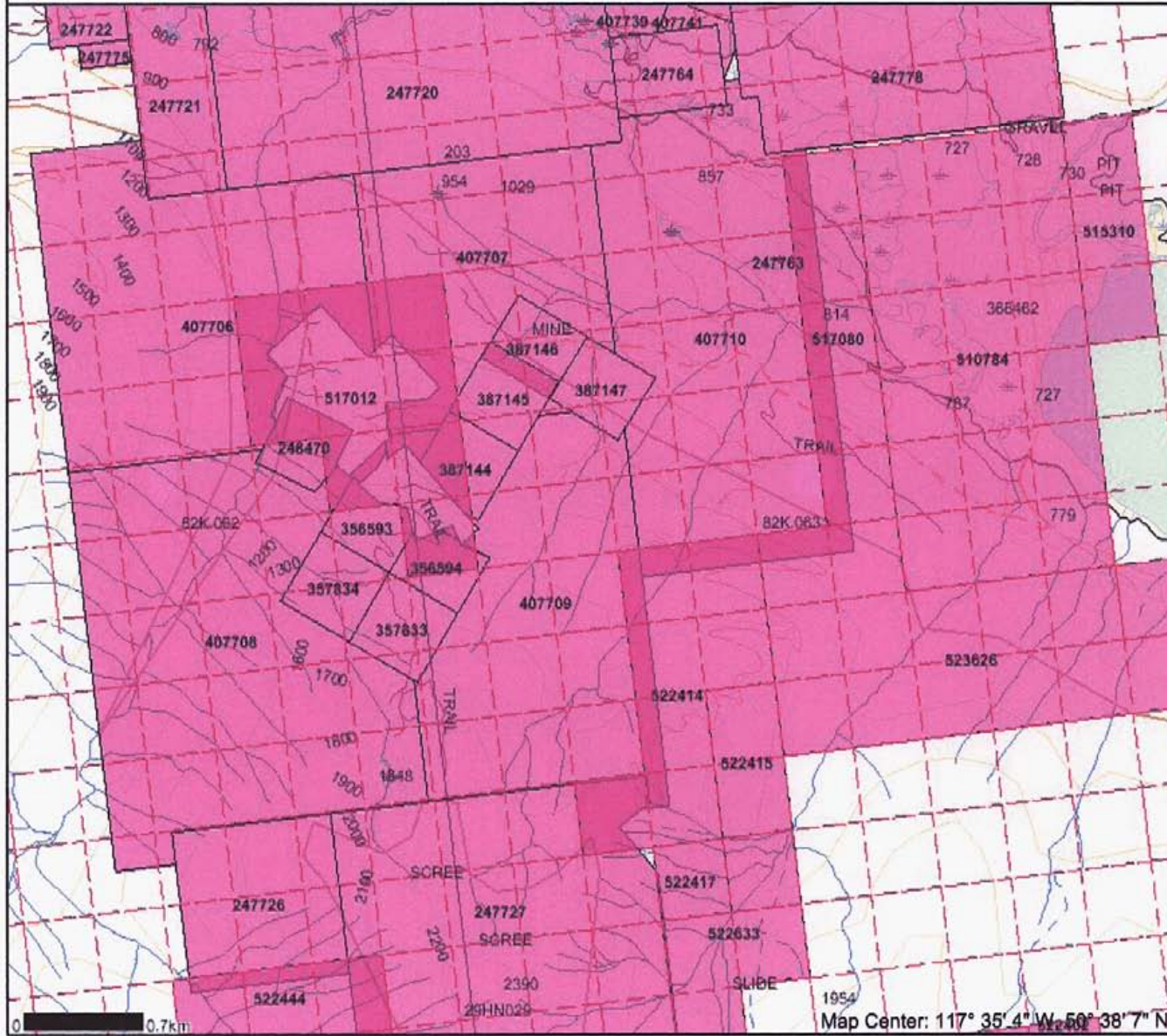
FIGURE - 1



FIGURE - 2

Map created Tue Jan 17 16:44:12 PST 2006

Legend



- Indian Reserves
- National Parks
- Parks
- Mineral Titles Grid
- Mineral Tenures
- Reserves (Sites)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Mining Divisions
- BCOS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Areas of Indefinite Contours
- Transportation - Points (TRIM)
- Hotipad
- Transportation - Lines (TRIM)
- Airfield
- Airport
- Airstrip
- Airport, Abandoned
- Ferry Route
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 2 Lanes
- Road (Gravel Undivided) - U/C - 1 Lane
- Road (Gravel Undivided) - U/C - 2 Lanes
- Road (Paved Divided) - Not Elevated - 1 Lane Each Way
- Road (Paved Divided) - Not Elevated - 2 Lanes Each Way
- Road (Paved Divided) - U/C - Not Elevated - 2 Lanes Each Way
- Road (Paved Undivided) - Not Elevated - 1 Lane
- Road (Paved Undivided) - Not Elevated - 2 Lanes
- Road (Paved Undivided) - Not Elevated - 4 Lanes
- Road (Paved Undivided) - U/C - Not Elevated - 4 Lanes
- Road (Unimproved)
- Cut (Roadway)
- Embankment/Fill (Roadway)
- Trail
- Bridge - Foot
- Bridge - Truss
- Tunnel
- Bridge
- Rail Line (Double Track)
- Rail Line (Multiple Track)
- Rail Line (Single Track)

Scale: 1:38,920

DO NOT USE FOR NAVIGATION

0 0.7km

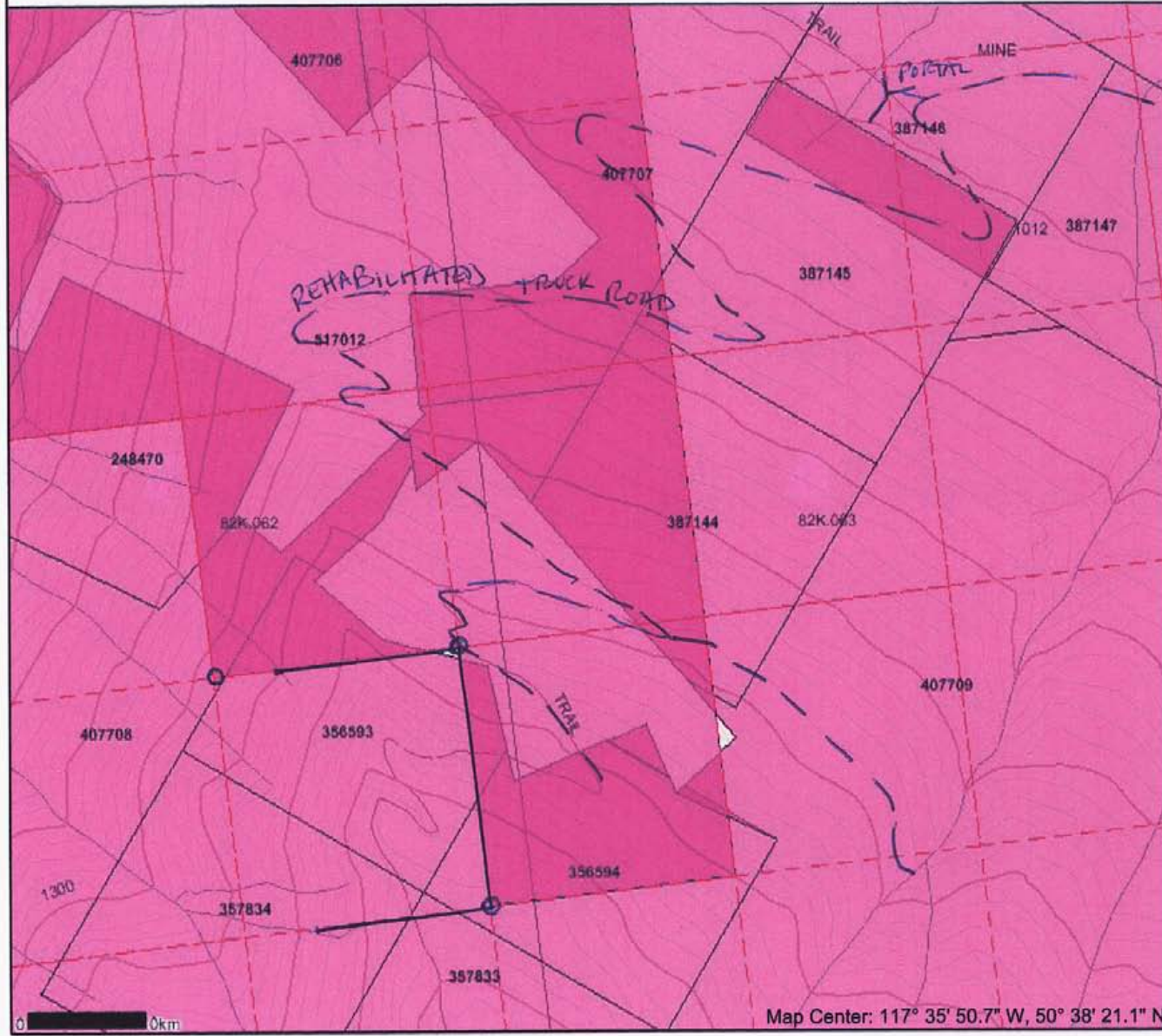
Map Center: 117° 35' 4" W, 50° 38' 7" N

MAX PROJECT - CLAIM DETAIL

FIGURE 3

Map created Wed Jan 18 11:53:59 PST 2006

Legend



- Indian Reserves
- National Parks
- Parks
- Mineral Titles Grid
- Mineral Tenures
- Reserves (Sites)
- Pleaser Claim Designation
- Pleaser Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Mining Divisions
- Integrated Cadastral Fabric
- BCOS Grid
- Contours (TRIM)
- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:20K)
- Transportation - Points (TRIM)
- Refield
- Transportation - Lines (TRIM)
- Airfield
- Airport
- Airstrip
- Airport.Abandoned
- Ferry Route
- Road (Gravel Undivided) - 1 Lane
- Road (Gravel Undivided) - 2 Lanes
- Road (Gravel Undivided) - U/C - 1 Lane
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- Road (Paved Undivided) - Not Elevated - 4 Lanes
- Road (Paved Undivided) - U/C - Not Elevated - 4 Lanes
- Road (Unimproved)
- Cut (Roadway)
- Embankment/Fill (Roadway)

Scale: 1:11,027

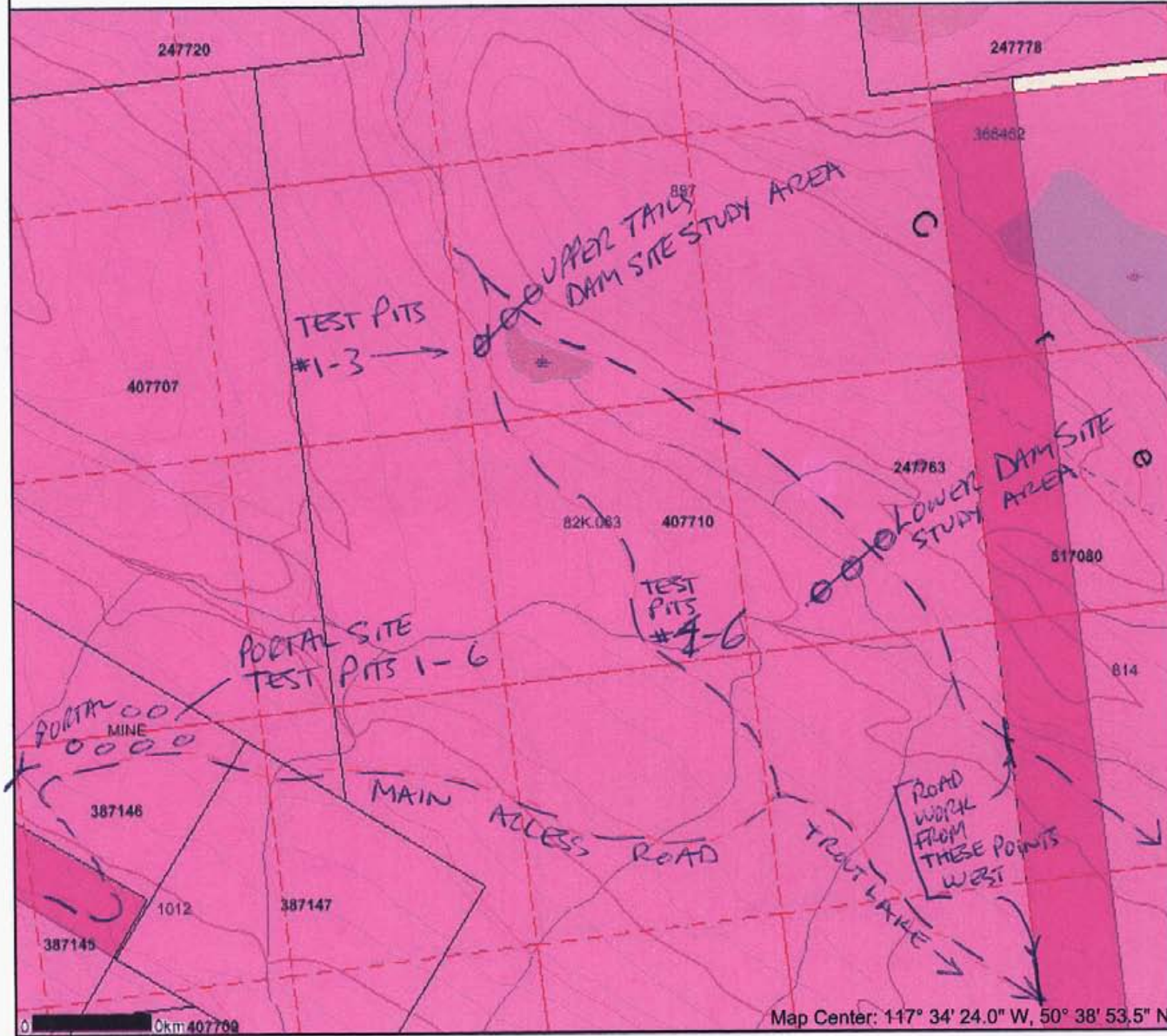
DO NOT USE FOR NAVIGATION

O CORNERS IN PLACE
 — LINE CUT ON CELL BOUNDARY

FIGURE 4

Map created Wed Jan 18 14:33:24 PST 2006

Legend



- Indian Reserves
- National Parks
- Parks
- Mineral Titles Grid
- Mineral Tenures
- Reserves (Sites)
- Pleaser Claim Designation
- Pleaser Lease Designation
- No Staking Reserve
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- Release Required Reserve
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- BCOS Grid
- Contours (TRIM)
- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:20K)
- Transportation - Points (TRIM)
- helipad
- Transportation - Lines (TRIM)
- Airfield
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- Airport/Abandoned
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- Road (Paved Divided) - U/C - Not Elevated - 2 Lanes Each Way
- Road (Paved Undivided) - Not Elevated - 1 Lane
- Road (Paved Undivided) - Not Elevated - 2 Lanes
- Road (Paved Undivided) - Not Elevated - 4 Lanes
- Road (Paved Undivided) - U/C - Not Elevated - 4 Lanes
- Road (Unimproved)
- Cut (Roadway)
- Embankment/Fill (Roadway)

Scale: 1:11,027

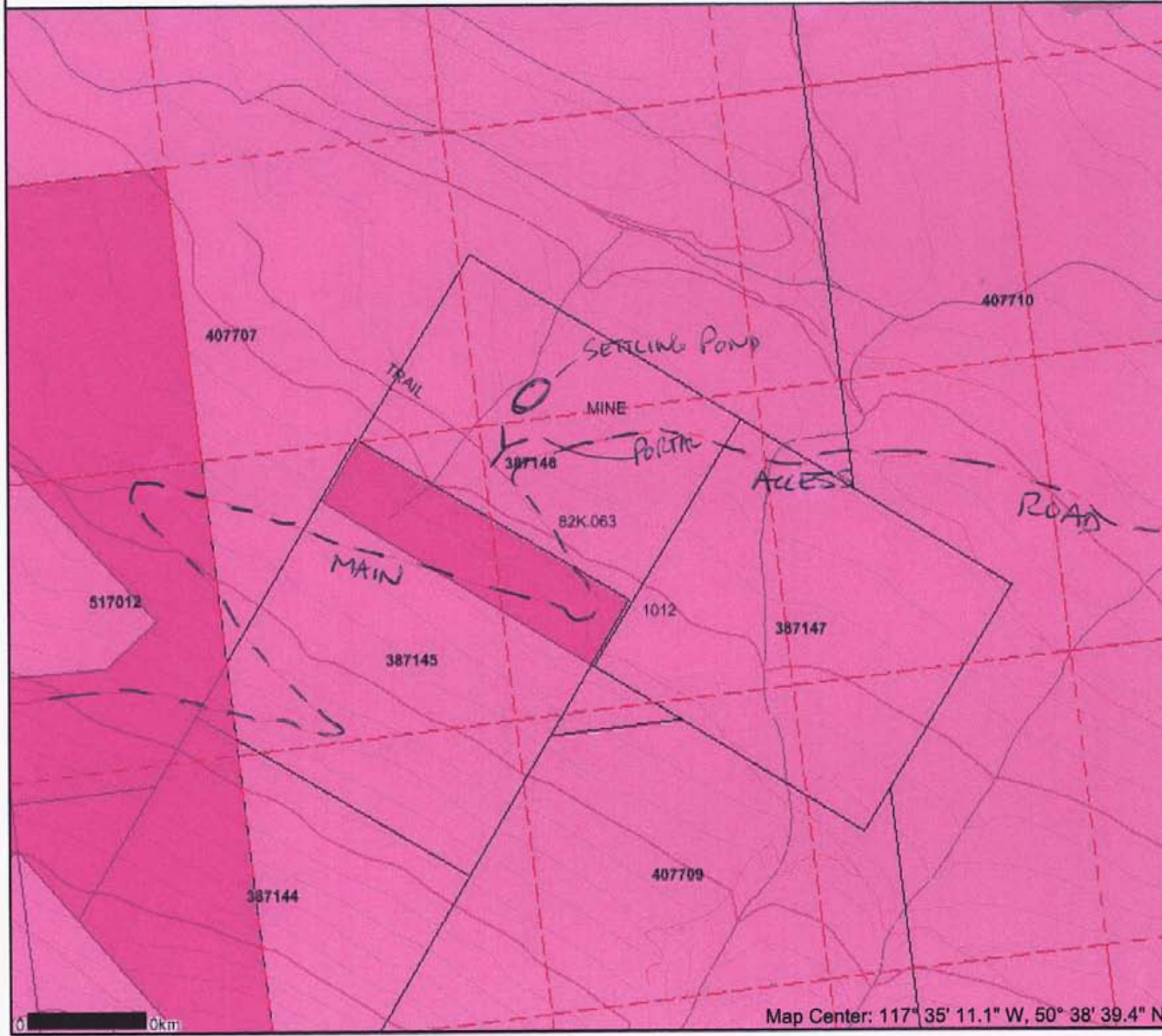
DO NOT USE FOR NAVIGATION

Map Center: 117° 34' 24.0" W, 50° 38' 53.5" N

FIGURE 5

Map created Wed Jan 18 11:47:36 PST 2006

Legend



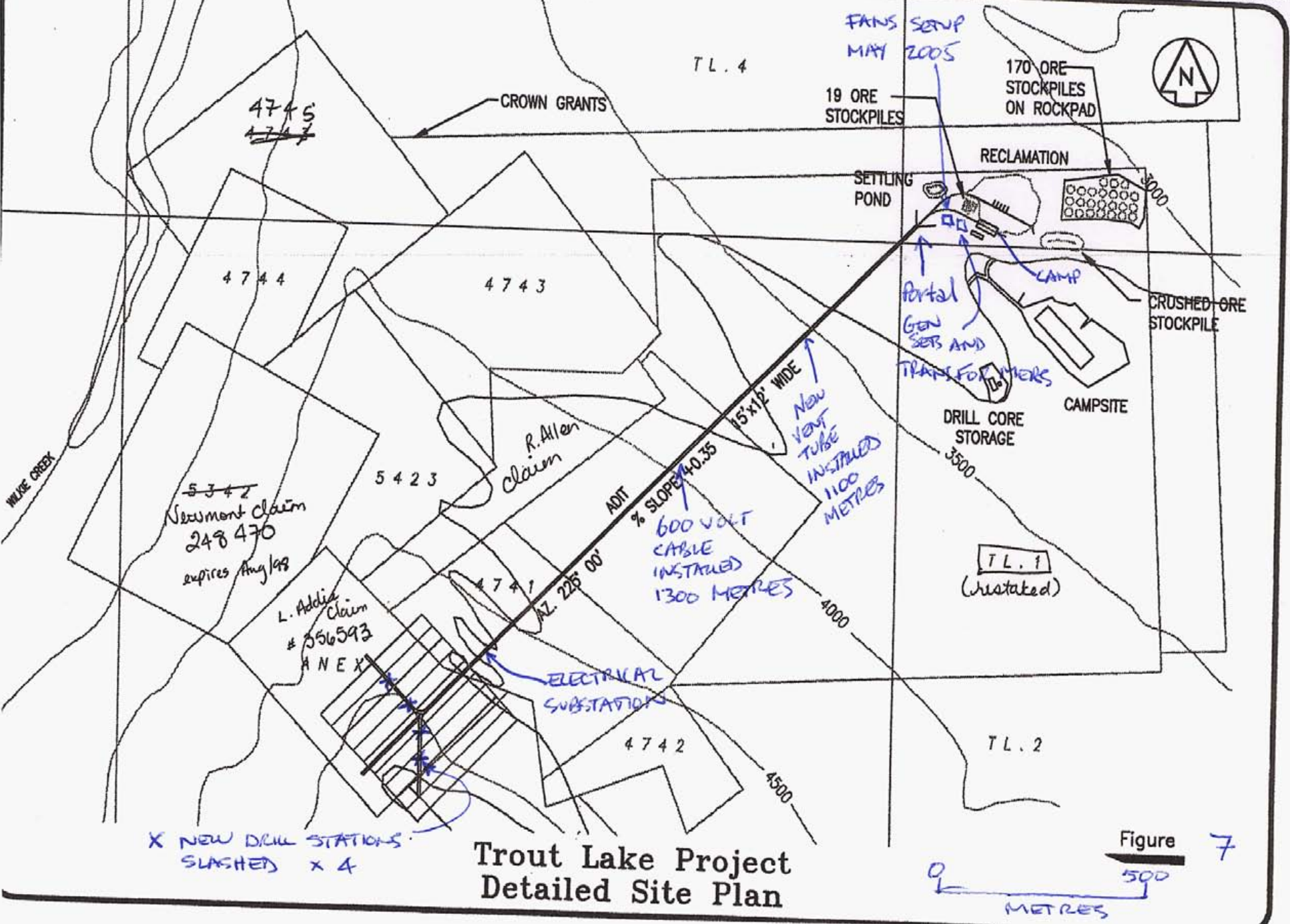
- Indian Reserves
- National Parks
- Parks
- Mineral Titles Grid
- Mineral Tenures
- Reserves (Sites)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Mining Divisions
- Integrated Cadastral Fabric
- BCOS Grid
- Contours (TRIM)
- Contour - Index
- Contour - Index, Indefinite
- Contour - Index, Depression
- Contour - Index, Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate, Indefinite
- Contour - Intermediate, Depression
- Contour - Intermediate, Depression Indefinite
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:20K)
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)
- Airfield
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- Airstrip
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- Road (Paved Undivided) - Not Elevated - 4 Lanes
- Road (Paved Undivided) - U/C - Not Elevated - 4 Lanes
- Road (Unimproved)
- Cut (Roadway)
- Embankment/Fill (Roadway)

Scale: 1:9,730

DO NOT USE FOR NAVIGATION

Map Center: 117° 35' 11.1" W, 50° 38' 39.4" N

FIGURE 6

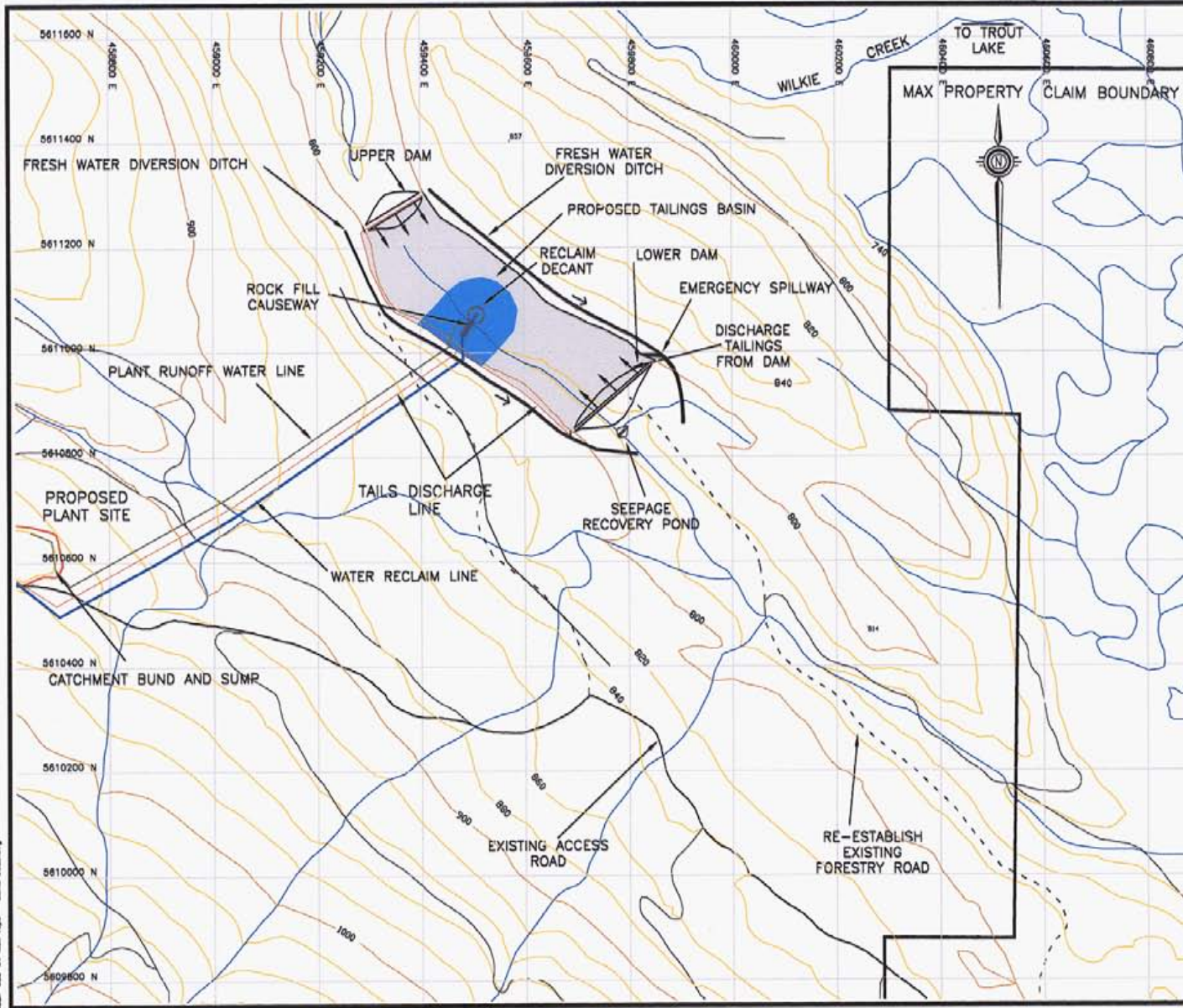


Trout Lake Project Detailed Site Plan

Figure 7

500 METRES

X NEW DRILL STATIONS SLASHED X 4



CLIENT: **FortyTwo Metals Inc.**

42

TO TROUT LAKE

WILKIE CREEK

MAX PROPERTY CLAIM BOUNDARY

150 0 150 300 450

1:7500

20m CONTOUR INTERVAL NAD83 UTM ZONE 11N

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

REV.	DATE	REVISION NOTES	DRAWN	CHECKED	APPROVED

SCALE:	AS SHOWN	
DATE:	MAY 2005	
DRAWN:	CJT	
DESIGNED:	BB	
CHECKED:	BB	
APPROVED:		

PROJECT:	MAX MOLYBDENUM PROJECT
TITLE:	GENERAL SITE ARRANGEMENT

PROJECT No.	FIG No.	REV.
0327-003-01	FIGURE 2	0

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

BGC Vancouver, BC Phone: (604) 684 5900

FIGURE 8

0327-003-01 Max Type - General Arrangement

Max Molybdenum Project
Tailings Facility Assessment

Addendum to:

MAX Molybdenum Project, British Columbia small Mine Application for an Underground Mine and On-site Concentrator, Revelstoke Mining Division British Columbia, Canada. Submitted by: FortyTwo Metals Inc. July 2005.

Prepared for:

John Mirko
FortyTwo Metals Inc.
Roca Mines Inc.
Vancouver B.C.

Prepared by:

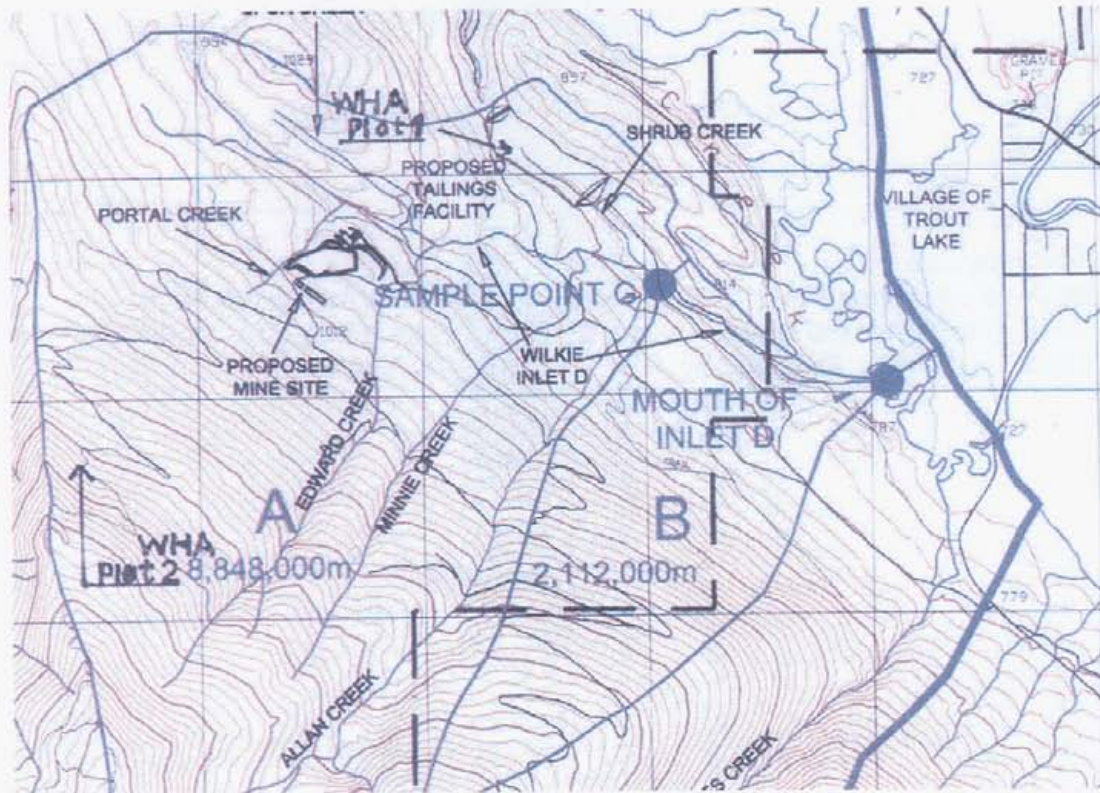
Doug Seaton
Cape Horn Consulting Inc.
Nakusp, BC

Oct. 18, 2005

BACKGROUND

The FortyTwo Metals Inc (FortyTwo) MAX Molybdenum Project proposes a 72,000 tonne per year molybdenite mine and concentrator facility near the Village of Trout Lake in southeastern British Columbia (Figure 1). This report assesses the potential impacts of the proposed development on the endangered mountain caribou (*Rangifer tarandus*). It also provides an initial indication of other *potentially* rare or endangered wildlife and plant species (i.e., based on existing rare and endangered wildlife and plant lists and initial field observations).

Figure 1: Proposed development area



This development area is in the ICHwk1 biogeoclimatic variant. The proposed tailings facility measures about 100 meters by 400 meters and consists of a sedge-fen contained by bedrock along each side. A young forest characterizes this area, with large stumps remaining as evidence of old logging.

Above the existing mine portal is a large shrubby clear-cut left by more recent logging (Figure 2). A strip of mature forest remains along Wilkie Creek to the west of the tailings facility.

Figure 2: Shrubby clear-cut above existing portal

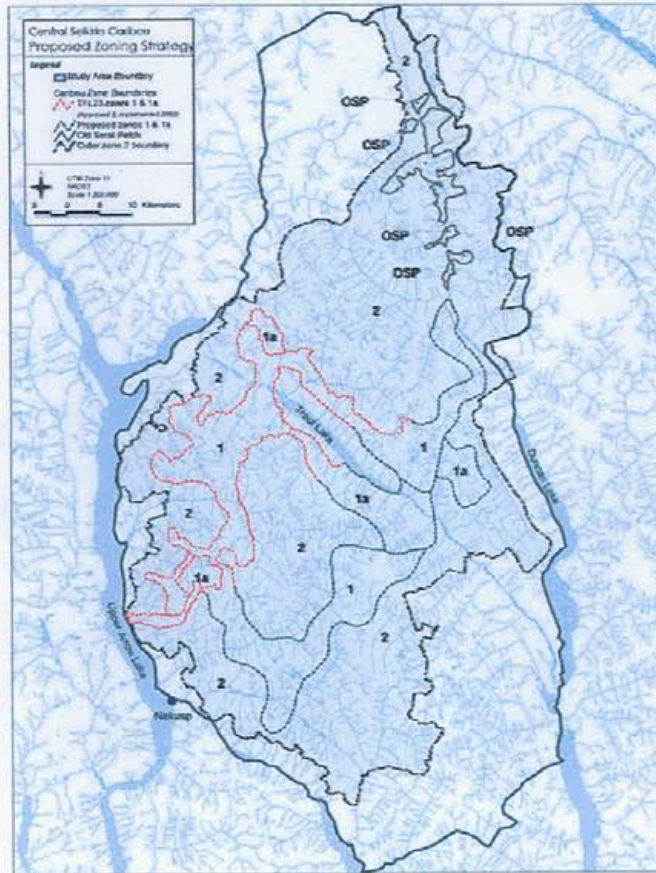


Mountain caribou are identified as a species at risk in British Columbia and are known to inhabit this area (SaRCO 2005). Radio telemetry studies have identified early winter caribou telemetry point locations in the mature timber along Wilkie Creek to the west and Humphries creek to the east of the tailings facility. Late winter locations were recorded in the top reach of Wilkie and Beaton Creek as well as to the north, on Great Northern Mountain. Spring and summer fall telemetry locations indicate movement through the area surrounding the tailings facility. PEM-based seasonal caribou habitat suitability mapping assigns habitat ratings of very low for early winter and late winter, moderate for spring and low for the summer fall seasons through the tailings facility (Hamilton and Wilson 2003).

The Caribou management strategy for TFL23 (LUP Working Group 2002) identifies that this proposed development is within the caribou connectivity zone (Zone 1; Figure 3). Timber harvesting activities in Zone 1 are deferred to promote an undisturbed habitat

linkage corridor for caribou populations to move between the western and eastern/northern portions of their range in the Central Selkirk's.

Figure 3: TFL 23 Caribou Management Strategy – Zonation Map



RESULTS and DISCUSSION

A field assessment of the tailings facility was conducted in 2005. Assessment procedures followed provincial wildlife habitat ratings standards (RIC 1999) and results were recorded on standardized Wildlife Habitat Assessment (WHA) field forms (RIC 1998). Field surveys included recording evidence of caribou, rating caribou habitat value (RIC 1998) and all other wildlife observations. Arboreal lichen was estimated according to Armleder et al (1992). Completed WHA field cards are found in Appendix I.

A list of potentially rare or endangered plant and wildlife species within the proposed tailings facility was compiled from the Conservation Data Centre database. Field reviews

were conducted to verify presence/absence for rare and endangered species. Results are summarized in Appendix II.

Tailings Facility Survey

Doug Seaton conducted a field survey of the proposed tailings facility on October 7, 2005. The purpose of this survey was to assess the proposed development area as it may impact caribou use and habitat suitability and the presence of other rare and endangered wildlife and plant species.

Wildlife

Intermittent trails were observed throughout the sedge fen along the length of the length of the tailings facility. (Figure 4). A moderate amount of elk and deer tracks were observed along these trails. Elk pellets and bear scat less than one year old were observed through the survey area. No well-defined trails indicating seasonal migration were encountered crossing this fen. Light browsing was observed on red osier dogwood.

Figure 4: Sedge fen through tailings facility



No defined channel exists through the west half of the proposed tailings facility. An old inactive beaver dam was encountered about 240 meters south east of the upper dam. The upstream side of this old beaver dam was dry. An active beaver dam exists about 330 meters south east of the proposed upper tailings facility dam. A beaver was observed (visual) in the pond behind this dam. (Figure 5, 6 & 7).

Figure 5: Tailings facility, approximate location of beaver dams

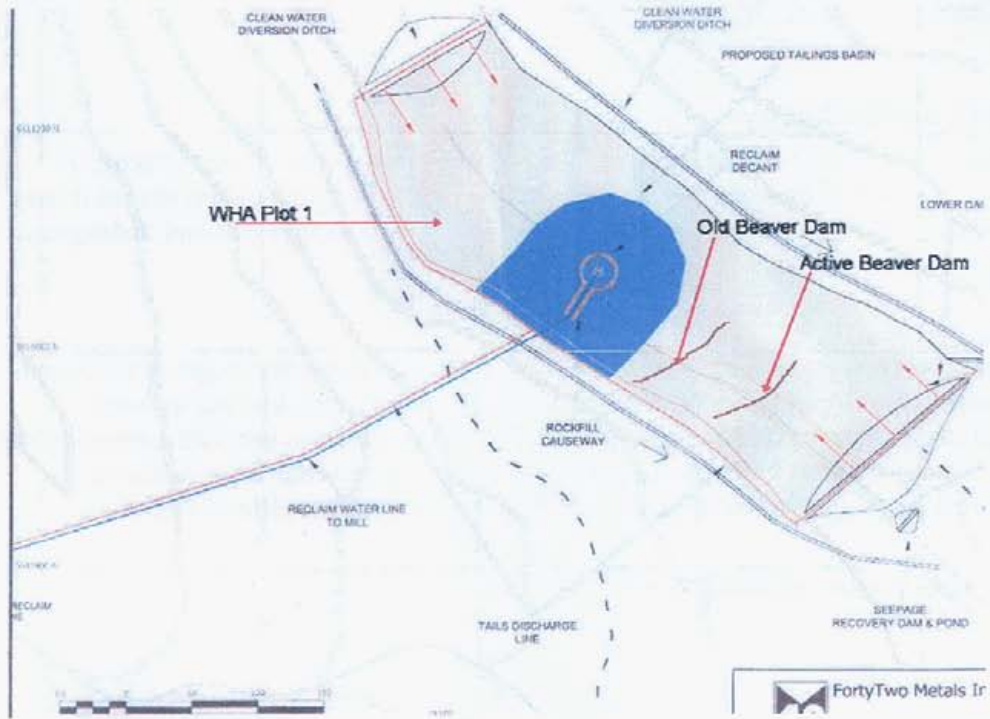


Figure 6: Active beaver dam within tailings facility



Figure 7: Evidence of beaver feeding on rhizome from water lily.



Birds

Five ruffed grouse were observed along the road into the tailings facility. One unidentified small bird was observed flying.

Amphibians

No amphibians were observed in this survey.

Reptiles

No reptiles were observed in this survey.

Caribou Habitat Assessment

WHA Plot 1

Evidence of Use:

No sign of caribou was observed in the area surveyed through the proposed tailings facility.

Habitat Evaluation:

The habitat suitability for caribou in this area was field rated as low for early winter, very low for late winter and moderate for the spring and summer-fall seasons. Lichen abundance was evaluated as class 1 (90% *alectoria spp.*) and not available at ground level. (Figure 8)

Figure 8: WHA plot 1, young forest bordering tailings facility



Other Species:

Elk and deer tracks less than one year old and evidence of browsing was observed around WHA plot 1.

WHA Plot 2

Evidence of Use:

No evidence of caribou was observed in or around WHA plot 2

Habitat Evaluation:

The habitat suitability for caribou in this area was field rated as moderately high for the early winter and summer-fall seasons and moderate for late winter and spring. Lichen abundance is class 5 (60% *alectoria spp.*) and available at ground level as well as in the form of litterfall. (Figure 9)

Figure 9: WHA plot 2 above the shrubby clear-cut uphill from existing mine portal.



Other Species:

A female white tail deer was observed (visual) above the existing mine portal. A high amount of elk tracks and browsing on willow (less than one year old) were observed in the below plot 2. Old antler scrapes are abundant through the clearcut below plot 2. A low amount of bear scat was observed through the clear-cut above the mine portal.

References Cited

- Arnleder, H.M., S. Stevenson, and S.D. Walker. 1992. Estimating the Abundance of Arboreal Forage Lichens. Land Management Handbook Field Guide Insert 7. Ministry of Forests, Research Program, Victoria, BC.
- LUP (Landscape Unit Planning) Working Group. 2002. Caribou Management in TFL#23: Agreement for District-Level Implementation Issues. Prepared for Arrow Forest District, Castlegar, BC.
- Hamilton, D., D. Seaton and C. Leitch. 2004. TFL23 Mountain Caribou Landscape Unit Planning and Reporting Procedures, Version 3.0. Arrow Forest District.
- Hamilton, D., and S.F. Wilson. 2002. Central Selkirk Mountain Caribou Habitat Use and Species-habitat Model for TFL23. Prepared for Pope & Talbot, Nakusp, BC.
- Resource Inventory Committee (RIC). 1998. Field Manual for describing terrestrial ecosystems. Land Management Handbook No. 25. BC Ministry of Forests and BC Ministry of Environment, Lands and Parks, Victoria, B.C.
- Resource Inventory Committee (RIC). 1999. British Columbia wildlife habitat ratings standards, Version 2.0. BC Ministry of Environment, Lands and Parks, Victoria, B.C.

List of Appendices

Appendix I: WHA field cards

Appendix II: Plant species observed in the area of the proposed tailings facility

Appendix 1: WHA field cards

WHA Plot 1

BRITISH COLUMBIA

Project id: ROSA MOUNTAIN TRAIL Date: 10 SEP 2007 N-Tab. feature type: page of:

Plot no.: 1 Surveyor: D.S.

Species	Habitat / Size		Plot type					Plot-in-context														
	S-LR	SH	FD	SH	TH	8	Habitat texture	8	Distance (cm)	FC L/R	Imp.	Habitat texture	8	Distance (cm)	FC L/R	Imp.	FD	SH	TH	Dist.	Com.	
<u>M.A.A.T.A.L.</u>	<u>1</u>	<u>4</u>																				
		<u>5</u>																				
		<u>2</u>																				
		<u>3</u>																				

Comments / Notes: Collected 4/5/6

BRITISH COLUMBIA

Project id: ROSA MOUNTAIN TRAIL Plot no.: 1

Evidence of Use										Outside plot and inside ecosystem and									
Inside plot																			
Species	Sex	Life Stage	Activity	Dist.	No.	Com.	Sex	Life Stage	Activity	Dist.	No.	Sex	Life Stage	Activity	Dist.	No.	Com.		
<u>M.C.I.S.W.</u>							<u>U</u>	<u>A</u>	<u>T</u>	<u>W</u>	<u>Y</u>	<u>M</u>	<u>U</u>	<u>A</u>	<u>K</u>	<u>Y</u>	<u>Y</u>	<u>L</u>	
<u>M.A.L.A.L.</u>							<u>U</u>	<u>A</u>	<u>T</u>	<u>W</u>	<u>Y</u>	<u>L</u>							
<u>M.D.I.S.E.</u>							<u>U</u>	<u>A</u>	<u>T</u>	<u>W</u>	<u>I</u>	<u>L</u>							

Comments / Notes:

Abbreviated Tree Attributes for Wildlife				Single Coarse/Woody Debris			
B.A.F.	Area	Mh DBH		Decay class	Sampled	m of 30 m transect	
No. of trees	No. class	No. trees		Decay class			
Avg. DBH (cm)		Avg. length (m)		Decay class			
Avg. leaf load class		Comments	<u>7.5 P-CT</u>	Decay class			
Comments: <u>MON-AT-GARD</u>				Comments: <u>ER-AT-7.4 (L)</u>			

Management							
Species (Sp. group)	Use	Sex	FC LR(s)	Cap.	Height	Tech.	M. Feed / Int.

Comments / Notes:

FS 882 (5) HFE 98/5

WHA Plot 2



Project Id. <u>RCC - M.N. 7221-2</u>		Date <u>10/1/01</u>	Plot no. <u>2</u>	Page of <u>1</u>														
Plot no. <u>2</u>		Surveyor <u>D.S.</u>																
Species	Habit use / Size		Plot type				Plot-to-contrast											
	Sp. LR	Sex	FD	SH	TH	E	Habit use	FC LR	Sex	Habit use	FC LR	Sex	FD	SH	TH	Sex	FC LR	
<u>ARRAW</u>	<u>1</u>	<u>WE</u>	<u>2</u>			<u>0</u>												
Comments / Notes		<u>Good habitat for WPA...</u>																



Project Id. <u>RCC - M.N. 7221-2</u>		Date <u>10/1/01</u>	Plot no. <u>2</u>																
Evidence of Use										Outside plot and inside ecosystem unit									
Species	Sex	Life Stage	Activity	Dist.	No.	Corr.	Sex	Life Stage	Activity	Dist.	No.	Sex	Life Stage	Activity	Dist.	No.	Corr.		
<u>M.C.E.E.V.</u>							<u>M.A.G.R.O.M.U.A.T.W.V.H.</u>												
<u>M.W.R.A.M.</u>							<u>V.A.E.X.Y.L.</u>												
<u>M.O.D.V.I.</u>							<u>F.A.F.L.F.L.</u>												
Comments / Notes																			
Abbreviated Tree Attributes for Wildlife										Simple Coarse Woody Debris									
BAF	Area	No. dead	Mts DBH	No. live	Decay class	Diam. class	Decay class	Diam. class	Decay class	Diam. class	Decay class	Diam. class	Decay class	Diam. class	Decay class	Diam. class			
Avg. DBH (cm)										Avg. length (m)									
Avg. live load class <u>3</u>										Comments <u>25% - 100%</u>									
Comments <u>ANALYSIS @ 1.5m</u>										Comments <u>R-L - 0</u>									
Management																			
Species (Sp. group)	Use	Sex	FC L/R	Cap.	Agmt. Tech.	M. Feet/Int.	Comments / Notes												

FS 882 (3) HPE 985

Appendix 2: List of Potentially Rare & Endangered Wildlife and Plant Species and Presence/Absence Field Verification within proposed tailings facility

CDC List for ICH / ICHwk / ICHwk1

Vascular plant, Dicots

Scientific name	English name	B.C. status	Field verified	BEC
<i>Carex lasiocarpa</i>	slender sedge	Blue	no	ICHwk1
<i>Drepanocladus aduncus</i>	common hook moss			
<i>Agoseris lackschewitzii</i>	pink agoseris	Blue	no	ICHwk

Vascular plant, Monocots

Scientific name	English name	B.C. status	Field verified	BEC
<i>Carex amplifolia</i>	bigleaf sedge	Blue	no	ICHwk
<i>Carex scoparia</i>	pointed broom sedge	Blue	no	ICHwk
<i>Elocharis elliptica</i>		Blue	no	ICHwk
<i>Elocharis tenuis</i>	Slender spike rush	Blue	no	ICHwk
<i>Melica smithii</i>	Smith's melic	Blue	no	ICHwk

Vertebrate Animal Birds

Scientific name	English name	B.C. status	Field verified	BEC
<i>Aeronautes saxatalis</i>	White throated swift	Blue	no	ICH
<i>Ardea herodias herodias</i>	Great Blue heron, herodias subspecies	Blue	no	ICH
<i>Botaurus lentiginosus</i>	American Bittern	Blue	no	ICH
<i>Dolichonyx oryzivorus</i>	Bobolink	Blue	no	ICH
<i>Megascops kennicottii macfarlanei</i>	Western Screech-Owl	Red	no	ICH
<i>Melanerpes lewis</i>	Lewis's Woodpecker	Blue	no	ICH

Vertebrate Animal Turtle

Scientific name	English name	B.C. status	Field verified	BEC
<i>Chrysemis picta</i>	Painted Turtle	Blue	no	ICH

Invertebrate Animal, Insects

Scientific name	English name	B.C. status	Field verified	BEC
<i>Argia vivida</i>	Vivid Dancer	Red	no	ICH

Invertebrate Animal, Gastropod

Scientific name	English name	B.C. status	Field verified	BEC
<i>Anquospira kochi</i>	Banded Tigersnail	Blue	no	ICH
<i>Cryptomastix mullani</i>	Cour d'Alane Oregonian	Blue	no	ICH
<i>Fisherola nuttalli</i>	Shortface lanx	Red	no	ICH
<i>Fossaria truncatula</i>	Attenuate Fossaria	Blue	no	ICH
<i>Hemphillia camelus</i>	Pale Jumping-slug	Blue	no	ICH
<i>Oreohelix strigosa</i>	Rocky Mountainsnail	Blue	no	ICH
<i>Oreohelix subrudis</i>	Subalpine Mountainsnail	Blue	no	ICH
<i>Physella columbiana</i>	Rotund Physa	Red	no	ICH

Invertebrate Animal, Bivalve

Scientific name	English name	B.C. status	Field verified	BEC
<i>Anodonta nuttalliana</i>	Winged Floater	Blue	no	ICH
<i>Anodonta oregonensis</i>	Oregon Floater	Blue	no	ICH
<i>Pisidium insigne</i>	Tiny Peaclam	Blue	no	ICH

Vertebrate Animal Bony Fishes

Scientific name	English name	B.C. status	Field verified	BEC
<i>Acipenser transmontanus</i>	White sturgeon	Red	no	ICH
<i>Acrochelilus alutaceus</i>	Chiselmouth	Blue	no	ICH
<i>Cottus bairdi hubbsi</i>	Columbia Mottled Sculpin <i>hubbsi</i> subspecies	Blue	no	ICH
<i>Cottus confusus</i>	Shorthead sculpin	Blue	no	ICH
<i>Oncorhynchus clarki lewisi</i>	Cutthroat Trout	Blue	no	ICH
<i>Rhinichthys umatilla</i>	Umatilla Dace	Red	no	ICH
<i>Salvelinus confluentus</i>	Bull trout	Blue	no	ICH

Vertebrate Animal Mammal

Scientific name	English name	B.C. status	Field verified	BEC
<i>Gulo gulo luscus</i>	Wolverine	Blue	no	ICH
<i>Martes pennanti</i>	Fisher	Blue	no	ICH
<i>Ovis Canadensis</i>	Bighorn Sheep	Blue	no	ICH
<i>Rangifer tarandus pop 1</i>	Caribou (southern population)	Red	no	ICH
<i>Tamias ruficaudus simulans</i>	Red-tailed Chipmunk	Blue	no	ICH
<i>Taxidea taxus</i>	Badger	Blue	no	ICH
<i>Ursus Arctos</i>	Grizzly Bear	Blue	no	ICH

Vertebrate Animal Amphibian

Scientific name	English name	B.C. status	Field verified	BEC
<i>Plethodon idahoensis</i>	Coeur d'Alene Salamander	Blue	no	ICH

Vertebrate Animal Reptile

Scientific name	English name	B.C. status	Field verified	BEC
<i>Coluber constrictor</i>	Racer	Blue	no	ICH
<i>Eumeces skiltonianus</i>	Western skink	Blue	no	ICH
<i>Pituophis catenifer deserticola</i>	Gopher Snake	Blue	no	ICH



A R C A S

CONSULTING ARCHEOLOGISTS LIMITED

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 Tel: (604) 526-2456 Fax: (604) 526-2438

*237 Email: arcas@arcas.net

Archaeological Overview Assessment

Development Information

Development: MAX Molybdenum Project - Proposed Tailings Storage Area, Trout Lake, B.C.

Proponent: Forty-Two Metals Inc.

Proponent Contact: John Mirko [604] 684-2900 ext. 110

First Nations:

Ktunaxa-Kinbasket Tribal Council

Okanagan Indian Band

Spallumcheen Indian Band

First Nations' Contacts:

Dan Paradis [250] 489-4022

Jay Louis [250] 542-7534

Ida Alexander [250] 838-6496

Forest Region/District: N/A

Arcas File #: 05538

Location: Purcell Trench - Wilkie Creek, approximately 2 km W of Trout Lake City

Map Reference: NTS 82 K/12; BCGS 82K.063

Report Author: Richard P. Brolly

Report Date: 25 November 2005

Methodology


AOA Source: A GIS-based archaeological potential model developed in 2000 by Kutenai West Heritage Consultants (KWHC) for Pope & Talbot's TFL#23, displays a fairly large area of moderate-high potential terrain covering most of the proposed tailings storage area, and discontinuous smaller patches of moderate potential in the SW part of the development area. It is suspected that the model has picked up very localized areas of gently sloping to nearly level terrain in a montane swale that will be the development area.

Assessment: For this in-office review, information was derived from a 1:5000-scale orthophoto displaying the KWHC archaeological potential model, a TRIM-based topographic map obtained via RAAD (Archaeology Branch remote access to archaeological data), and a 1:50,000-scale topographic map (NTS 82/K12). Based on the review of these documents, recommendations are made regarding the need for further archaeological work in respect of this development.

Recorded Site and Trail Information

No documented pre-Contact archaeological sites are located within 5 km of the proposed tailings pond development area. Site EdQh-1 is the historic Trout Lake Hotel, about 2 km E of the development area. The only pre-Contact site within 10 km is EdQi-1, a pictograph site on the NE shore of Trout Lake, 8 km SE of Trout Lake City.

Development	Recommendation	Comments
<p style="text-align: center;">Tailings Storage Area</p>	<p>No further archaeological study required</p>	<p>Topographic mapping indicates that the development area is situated between 780 and 800 m asl, about 100 m above the valley bottom. The swale in which the proposed tailings storage area is to be developed does not appear to have been a practical travel corridor from the Purcell Trench valley bottom to high-elevation settings to the W and SW. There is a slight chance that an ephemeral wetland at the drainage divide within the swale could have been used for traditional ungulate hunting and/or plant gathering, but the nearby valley bottom would probably have had higher productivity for traditional resources utilized by Aboriginal people. This setting is within the Wells Grey Wet Cool Interior Cedar-Hemlock subzone (ICHwk1). Forests within the development area have been logged on two previous occasions, and only juvenile to immature trees are now present.</p> <p>The in-office assessment concludes that this setting has low archaeological potential, because it is situated in a disturbed, montane swale with unfavourable solar exposure.</p>

Note
<p>This archaeological overview assessment is concerned with potential impacts to archaeological resources by development of an ancillary facility for the MAX Molybdenum Project. It does not address potential impacts to traditional use sites by this development. It is not the intent of this report to document First Nations' interest in the land. The study was conducted without prejudice to First Nations' treaty negotiations, Aboriginal rights, or Aboriginal title.</p> <p>For more information on this review of archaeological potential, please contact the report author.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div data-bbox="175 1192 446 1304">  Richard P. Brolly, RPCA </div> <div data-bbox="1161 1234 1429 1304" style="text-align: right;"> 2005 November 25 Date </div> </div>

Service provided:

GPS and hand survey of 3 corners and partial boundary marking of the area for the lease conversion of the Max.

Problems encountered:

Due to terrain and weather conditions 1 corner was NOT GPS'ed and lines not cut include part of the Southeast to Southwest and part of the Northeast to Northwest and all of the Northwest to Southwest line.

The Northeast, Northwest and Southeast Corners were established using a Trimble ProXR differentially corrected GPS, surveying the points as close as possible and marking the points with a steel pin before correction, correcting the files, and surveying, with hand tools, the pins into their corrected positions. The corrected positions were determined by reading the coordinates of the corners off of the MTO web site for the cell in question.

Recommendations:

If time is of the essence; Repel into the Southwest corner with a 2 man repel team and GPS and Saw. Fall an area to ensure adequate GPS coverage and place pin. Repel out of area using the most practical route.

Finish marking the boundary using a local hand faller this winter under heavier snow load conditions.

If timing is less critical; finish the boundary marking and final corner after the snow goes next spring using a 2 man linecutting team that is GPS capable.

If I am not busy this winter I would be willing to repel in and mark the last corner for cost. Cost would be; travel, food, accommodation, and 2 100m static line climbing ropes and any gear that has to be left on site + GPS rental + wages for second man.

The !@\$@#R@# Laptop crashed again so I cannot give you the GPS'ed coordinates until sometime later this month. I have talked the outfit that I got the Data logger off of and they will email me the files off of it when the next crew shift happens, and the Data logger comes out of the bush.

I Have Norton loaded and I took the laptop to a computer Technician in town here. He said I did have a virus but that that was not causing the crashes. Apparently the Software for the GPS was completely incompatible with an AMD Athlon processor and Trimble has since come up with a patch for that problem so I hope not to have those identical types of difficulties in the future.

Thank you for the opportunity to work with you and best wishes for the success of your ventures.

Sincerely,

Steve Soby

APPENDIX 4 – STATEMENTS OF QUALIFICATIONS

1. John Mirko
2. Doug Seaton
3. Richard Brolly

Statement of Qualifications

I, John Mirko, certify that:

a.) Since 1972, I have practiced my profession of prospecting and property evaluation including all phases of surface and underground exploration.

b.) Employers and clients include;

Sumitomo Metal Mining Canada Inc., 1972

Manex Mining Inc., 1973

Kerr Addison Mines Ltd., 1974-1975

Newconex Ltd., 1976

And self-employed to date with clients including;

Hudson Bay Mining and Smelting Canada Inc., Galore Creek area;

U.S. Steel Ltd., Quesnel area

Skylark Resources Ltd. and Pacific Rim Mining Corporation, worldwide

Sincerely,



John Mirko

July 10, 2006

Doug Seaton
Box 1108
Nakusp, B.C.
V0G 1R0
250-265-3243

E D U C A T I O N

Northern Alberta Institute of Technology 1977
Edmonton, Alta.

FOREST TECHNOLOGY PROGRAM - WILDLIFE OPTION

Selkirk Secondary School
Kimberley, B.C.
GRADUATE - 12

P R O F E S S I O N A L E X P E R I E N C E

Cape Horn Consulting Inc. 2002 - 2006
Nakusp, B.C.
GENERAL MANAGER

Ongoing ungulate winter range assessment, Pope and Talbot (Boundary District)

Ongoing avalanche classification grizzly bear habitat ratings for TFL # 23. Pope and Talbot.

Grizzly bear habitat inventory, Pope and Talbot (Boundary District) (2005 - 2006)

Caribou habitat predictive ecosystem modeling (Ground inspection and wildlife habitat assessments), Parks Canada, Nanuq Consulting, Revelstoke BC 2005-2006

Ongoing environmental consulting for Roca Mines Max Moly Project in Trout Lake.

On site Environmental Monitor for Canadian Hydro Developers, Pingston Hydro Project (Revelstoke 2002 - 2006). Scope of work involves construction monitoring, water quality monitoring (sampling, filter / preserve & shipping), design, construction and monitoring of spawning channel and in stream fish habitat structures as well as construction site rehabilitation. Responsibilities include ongoing instream flow monitoring, installation, calibration and monitoring of stream flow data loggers, thermistors etc. Monitoring changes to stream morphology (surveying permanent transects) as well as benthic sampling continue semi annually.

Culvert / bridge removal / replacement mitigation Pope and Talbot, Ingersol. (i.e. fish removal, fencing, and erosion control)

Caribou habitat inventory, BCTS, Nanuq Consulting 2005

Central Selkirk Caribou Habitat Inventory for Pope and Talbot (2002-2006)

ARCASCONSULTING
ARCHEOLOGISTS55A Fawcett Road
Coquitlam, B.C., V3K 6V2Tel: (604) 528 - 2456
Fax: (604) 528 - 2438
Email: rbrolly@arcas.net

Fax Cover

To: FORTY-TWO METALS INC.

Attn: John Mirko **From:** Richard P. Brolly, RPCA

Fax #: [604] 684-2902 **Date:** 26 June 2006

Re: MAX Molybdenum Project – statement of archaeological qualifications

Pages: 1 **Arcas Project #:** N/A

John:

Here is a statement of qualifications for myself, adapted from our Company Profile. Let me know if you need any additional information or clarification

Richard Brolly, Archaeologist, RPCA

B.A., Archaeology/Anthropology (Simon Fraser University, 1977). Primary interests include prehistory of the Fraser/Columbia Plateau and Strait of Georgia/Vancouver Island/Puget Sound in the Pacific Northwest, ecological archaeology, and historical archaeology. Richard worked as an archaeologist for the B.C. Government's Archaeological Sites Advisory Board and Heritage Conservation Branch between 1975 and 1983. He worked as an archaeological consultant, with Arcas Consulting Archeologists since 1984. During that time, he has directed cultural resource management projects of various kinds throughout British Columbia, including impact assessments, overview studies, and archaeological excavations. Richard is a Registered Professional Consulting Archaeologist and member in good standing of the BC Association of Professional Archaeologists, and is also a member of the Canadian Archaeological Association, Society for American Archaeology, Association for Washington Archaeology, and Mining History Association.

Regards,

Richard P. Brolly, RPCA