COST ESTIMATE FOR
HOPE BAY PROJECT DORIS HINGE
OPEN PIT MINING AND
EARTHWORKS CONSTRUCTION

Prepared For:
Brian Labadie, Senior VP Operations, Miramar Mining Corporation
Maritz Rykaart, Senior Engineer, SRK Consulting

Respectfully Submitted By:

NUNA LOGISTICS LIMITED
Executive Offices
340 Park Place
666 Burrard Street
Vancouver, British Columbia
V6C 2X8

NUNA LOGISTICS LIMITED
Operations and Administration
9839 – 31 Avenue
Edmonton, Alberta
T6N 1C5

NUNA LOGISTICS LIMITED
Human Resources
Suite 104, 5107 – 48 Street
Yellowknife, NWT
X1A 1N5

January 17, 2002

COST ESTIMATE FOR
HOPE BAY PROJECT DORIS HINGE
OPEN PIT MINING AND
EARTHWORKS CONSTRUCTION

INDEX

EXECUTIVE SUMMARY

INTRODUCTION

Nuna Logistics is an Inuit company with extensive experience in Northern Canada. We have a demonstrated commitment to hiring northerners and providing subcontract and supply opportunities to northern firms. For this project we would anticipate using the following subcontractors.

1. NWT Rock Services, Yellowknife -- drill & blast work
2. Nahanni Construction, Yellowknife -- concrete work if required
3. Sub-Arctic Surveys, Yellowknife -- surveying
4. JSL Mechanical, Yellowknife -- mechanical work
5. JT Electric, Yellowknife -- electrical work

Nuna Logistics' estimated work plan is intended to meet the Hope Bay Project design and schedule as developed by SRK Consulting. Our interpretation of the work plan and schedule are presented in detail within this estimate. We believe that a well planned and well executed work plan minimizes the cost to our clients. Tonnages, cycle times, equipment and labour hours, and costs are presented on a month-by-month basis.

Nuna Logistics intends to mobilize a mid-life aged fleet of equipment for this project. This fleet would provide adequate availability and capacity to do the work without attracting the higher carrying cost of an all-new fleet.

OUR APPROACH

Nuna Logistics' understanding is that the project will commence with the all of the necessary mine equipment, camp and fuel being shipped in to Roberts Bay in summer 2002 and off loading after freeze-up, probably in December. The first requirements will be to establish temporary camp facilities and to develop a winter road to the Doris Hinge. Over the winter, the final camp, shop and fuel storage facilities would be established at the site.

It is assumed that all of the necessary permitting will be complete by the end of February and that mine operations could commence in March. Over the next four months, the mine operation would develop the pit, delivering material for construction of the permanent access, air strip and tailings dyke. Ore from within the pit design will have been mined and stockpiled. With the pit completed, most of the mine equipment would remain idle from then until demobilization, probably in September. Processing and underground operations could begin after the equipment arrives during the 2003 shipping season.

START UP

Initial activities will be the off-loading of equipment from the barge, after freeze-up. Construction of the 4 km winter road from the south end of Roberts Bay to the Doris Hinge should be complete within a few days. The installation of facilities and transfer of fuel from the barge to the storage tanks would be carried out over the next several months.

FACILITIES

Site preparation and establishment of a 12m x 24m fold-away shop, a 70 man camp, an office and a dry, as well as storage facilities for 1.3 million litres of fuel, will be completed over the first few months. A package, made up of four generators complete with a synchronized load distribution center, will provide up to 3.3MW of electric power, specifically for the mill and U/G operation. Only two of the generators will be required onsite prior to the start of mill operations. It is assumed that during mill operation, a fuel barge will be beached or frozen-in and fuel will be transferred as necessary to maintain levels in the storage tanks.

MOBILIZATION

All equipment, facilities and supplies for the mine operations will be mobilized by barge from Hay River. The deadline for shipping is probably mid-July, 2002. Most of the mine equipment will be returned to Hay River the following year, loaded back on the barge in Hope Bay in August or September 2003.

PIT DESIGN

The specified mineable resource is 82,500 mt ore and 375,000 mt of waste material within the optimized pit shell. It is estimated that actual mining will require an additional 205,500 metric tonnes of waste stripping to provide for a 10% haulage ramp from daylight (at 0.0 m bench) to the bottom of the pit. Revised (Nov 26th) estimates of the material quantities that are required for construction of the airstrip, apron, roads and tailings containment berm amounts to 226,000 cubic meters or 500,000 metric tonnes.

The first ore will be mined in the second month of operation. There will likely be an ore stockpile inventory of 82,500 mt at the completion of pit operations, requiring an approximate storage area of 20,000 square meters (160m x 160m).

PRODUCTION SCHEDULE AND COST ESTIMATE

Based on the mineable resource and the expanded stripping requirements, production scheduling indicates completion of the open pit within a four month time frame. Conceptually, the equipment would arrive by barge and be frozen in by late November. The 4 km winter road would be built in late December, at an estimated cost of $40,000. Mining would begin in March. Waste rock would be hauled from the pit to the construction areas as it is mined. One CAT 988 loader and four CAT 773-50 ton haulage trucks operating 20.5 hours per day would move about 6,400 tonnes per day or 190,000 mt per month. A CAT 330 excavator will be available to provide selective mining of ore grade material. The overall cost of the open pit mining project and the earthworks construction activities, assuming a 38 man crew onsite and equipment as listed below, is estimated at $5.2M

including fuel, camp catering, and personnel air transport. The costs of sub-contracting for drilling, blasting and survey control are included in this amount.

The cost does not include the rental of facilities or the cost of equipment on standby as outlined below.

Most of the mining equipment will not be required to operate beyond the fourth month; it will, however, remain onsite until the next shipping season. The "standby cost" for the entire fleet is estimated at $45,000 per month, not including the standby cost of the sub-contractor's blasthole drills.

MINE EQUIPMENT

4 - CAT 773 (50t) Haul Trucks
2 - CAT 988 Loaders
1 - IR DM45 Production Blasthole Drills
2 - CAT D-8 Dozer
1 - CAT 330 Excavator
1 - 24 x 36 Portable Jaw Crusher
1 - CAT 14G Grader
1 - Service / Fuel Truck
1 - Plow Truck
1 - 25t Picker Truck
5 - Crewcabs
3 - Lighting Plants
7 - Heaters

SUPPLIES AND STORAGE

Fuel consumption for the mine equipment, as listed above, is estimated at 1.3 million litres for the four-month mining and construction project. When the mill and U/G become operational, in the second year, the fuel requirement for power generation is likely to be about 300,000 litres per month. This estimate is based on the specified consumption rate of 128.6 l/hour under 50% load, assuming three of the four units operating.

Assuming an average powder factor of 0.9 kg/BCM, 210 tonnes of ammonium nitrate (ANFO) will be required for the open pit mining.

We have assumed landed costs for fuel of $0.70 per litre and $535 per tonne for ammonium nitrate in one tonne totes.

BASIS OF THE ESTIMATE

Nuna Logistics' cost estimate is based on a schedule of rates basis with no allowances made for contingency or quantity variance. Labour and equipment rates include all consumables (except for those specified as Owner-supplied items) and include overheads and profit. The following provides base rates for the equipment and labour as scheduled.

CAT 773 (50t) Haul Trucks	$ 175.29 per hour
CAT 988 Loaders	206.81 per hour
IR DM45 Production Blasthole Drills	181.00 per hour
CAT D-8 Dozer	174.85 per hour
CAT 330 Excavator	140.37 per hour
24 x 36 Portable Jaw Crusher	200.00 per hour
CAT 14G Grader	101.45 per hour
Service / Fuel Truck	85.80 per hour
Plow Truck	134.69 per hour
25t Picker Truck	100.80 per hour
Crewcabs	$ 2,365 per month
Lighting Plants	1,400 per month
Heaters	2,450 per month

Equipment costs include fuel based on a landed cost of $0.70 per litre.

Equipment rates are based, for each piece of equipment, on hourly operating rates, which include an ownership component and an operating component. The ownership component includes carrying costs, depreciation, and equipment specific insurance. The operating component includes tires, repair parts, wear parts, maintenance labour (with the same inclusions and exclusions as operating labour), overheads and profit.

Superintendent	$ 73.27 per hour
Foreman	64.92 per hour
Administrator	53.24 per hour
Loader operator	63.25 per hour
Truck driver	56.58 per hour
Dozer operator	63.25 per hour
Grader operator	61.58 per hour
Serviceman	58.24 per hour
Labourer	51.57 per hour

Nuna Labour costs include camp catering and air transport to site.

Drill foreman	53.00 per hour
Driller	48.00 per hour
Blaster	49.00 per hour
Helper	36.00 per hour
Mechanic	60.00 per hour

Subcontract Labour costs exclude camp catering and air transport to site.

Labour rates are based on a 3 x 2, 3 x 1 work schedule. The rates consist of our current labour pay rates, scheduled overtime, employee benefits (CPP, EI, WCB), statutory holiday pay, vacation pay, overheads and profit. The rates do not include allowances for unscheduled overtime, incidental overtime, non-productive time, short-turnarounds, standby time, or escalation and these items have not been included in the cost estimate.

Complete accommodation and maintenance facilities are provided at rental costs as outlined below.

Complete 70 man camp accommodation & dry (including cost of erection)	$36,000 per month
Electrical power generation package (2.4 to 3.3 MW synchronized load with dist. Center provides power to mill, shop, camp, U/G, etc. Includes jacket water heat recovery system)	$46,600 per month ($23,300 per month first year, half capacity)
Communications (2 voice, 1 data line, including usage)	$30,000 per month
Site radios	$500 per month
Fuel storage (1.3 million litre capacity)	$4,000 per month
12m x 24m fold-away shop (with tooling and including erection)	$18,400 per month
Camp catering, excluding freight for food	$42 per man-day.

The above rental rates do not include maintenance costs of the above facilities.

Mobilization and Demobilization

The cost of freight from Hay River to site is not included; however, the costs of preparation and setup are included in these estimates. The combined shipping weight of mining equipment, camp, fuel and supplies is estimated at 2,200 metric tonnes.

Owner Supplied Items

The estimate excludes Owner-supplied items as follows:

1) Air transport of parts and supplies between Yellowknife or northern communities and Hope Bay;
2) Unscheduled idle time
3) First-aid and safety orientation; and
4) Emergency facilities and personnel
5) Mine Engineering and Geology
6) Pit dewatering if required
7) Permanent materials if required

8) Mobilization and Demobilization
9) Contingency.

It is understood that the processing plant will require crusher feed at a maximum 600mm. This is typical pit-run sized material. The Nuna crushing plant will provide crushed rock only for construction purposes.

We have not included any allowance for contingency, quantity variance, financing costs (due to payment timing or holdbacks), bonding, risk allowance, or schedule contingency.

The estimate includes only the items and quantities specifically listed in the estimate. It is expected that the owner will apply appropriate contingencies based on their understanding of the Consultant's design and their understanding of the Contractor's (Nuna Logistics') estimate.

The Estimate also assumes that there is no detail earthworks construction. Therefore, all earthwork construction is dozed and bladed without further detail preparations.

ASSUMPTIONS

This cost estimate is based on the following Owner parameters and Nuna Logistics' assumptions.

1) The cost estimate is based on constant Year 2001 Canadian dollars.

2) The quantities (tonnes, cubic meters) and resulting haulage hours are assumed to be approximate only and the numbers may change based on equipment, quantity variances, and scheduling.

3) Specific gravities, swell factors and density of the material is assumed to be:

	Ore	Waste
Specific Gravity	2.90	2.50
Swell	30%	40%
LCM Density	2.23	1.79
Moisture Content	4%	4%
Reconsolidation	50%	50%
Reconsolidated Density	2.52	2.08

4) Whiteout days have not been included in the cost estimate or the schedule, however, sufficient backup equipment is provided to recover schedule losses.

5) An operating schedule of three weeks on-site followed by two weeks off-site then, three weeks onsite and one week off-site is used in the cost estimate (two 12-hour shifts per day). The estimate assumes that all hours are chargeable and does not include non-scheduled or incidental overtime.

6) The haul cycle profiles that are used are assumed to be representative of the average haul to deliver and free-dump ore in the stockpile area and to deliver waste to the dump and to the required construction areas. Deviations from the profiles or speeds attained could impact haul hours and subsequent costs.

7) We have assumed average truck speeds of: 10.0 km/h for + 10% ramp
20.0 km/h returning empty on –10% ramp
16.0 km/h on rough surface (bench floor)
30.0 km/h on smooth road.

8) We have used a spotting time of 2.0 minute at the shovel and an allowance of 2.0 minutes to spot and dump. The loading cycle for CAT loaders is estimated at 0.7 minutes per pass.

9) The carrying cost of the capital value of equipment is assumed to be 9%.

Nuna Logistics Ltd.

Hope Bay Project

Open Pit Mining & Earthworks Construction

Schedule 1: Quantities Schedule - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.

1-Feb-02

DJF/CDS

		Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Quantities (Dry Tonnes)														
Doris Waste														
Bench														22,875
Bench									10,905					121,030
Bench									134,345	-				147,098
Bench										15,178				115,178
Bench										20,744	66,230			86,974
Bench											43,300			43,300
Bench											30,500			30,500
Bench											12,000			12,000
Bench											1,500			1,500
Doris Ore														
Bench 20														-
Bench 15														-
Bench 10														4,750
Bench 05										13,511				13,511
Bench 00										8,814	8,814			17,628
Bench -05											19,422			19,422
Bench -10											18,578			18,578
Bench -15											8,128			8,128
Bench -20											528			528
	Total	-	-	-	-	-	-	133,000	150,000	171,000	209,000	-	-	663,000
Quantity Equivalents														
Equivalent Quantities (ECMs)														
Doris Waste		-	-	-	-	-	-	63,840	69,720	71,364	73,694	-	-	278,618
Doris Ore		-	-	-	-	-	-	-	1,884	8,853	21,997	-	-	32,733
Other		-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	63,840	71,604	80,217	95,691	-	-	311,352
Equivalent Quantities (Wet Tonnes)														
Doris Waste		-	-	-	-	-	-	138,320	151,060	154,622	159,671	-	-	603,673
Doris Ore		-	-	-	-	-	-	-	4,940	23,218	57,689	-	-	85,847
Other		-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	138,320	156,000	177,840	217,360	-	-	689,520
Equivalent Quantities (BCMs)														
Doris Waste		-	-	-	-	-	-	53,200	58,100	59,470	61,412	-	-	232,182
Doris Ore		-	-	-	-	-	-	-	1,638	7,698	19,128	-	-	28,464
Other		-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	53,200	59,738	67,168	80,540	-	-	260,646
Equivalent Quantities (LCMs)														
Doris Waste		-	-	-	-	-	-	74,480	81,340	83,258	85,977	-	-	325,055
Doris Ore		-	-	-	-	-	-	-	2,129	10,008	24,866	-	-	37,003
Other		-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	74,480	83,469	93,266	110,843	-	-	362,058

Nuna Logistics Ltd. | **Schedule 2: Haul Distances and Cycle Times - Year 1** | **Prepared by Nuna Logistics Ltd.**

Hope Bay Project | **Prefeasibility Level Cost Estimate** | 1-Feb-02

Open Pit Mining & Earthworks Construction | DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Average
Haul Distances													
Total Average Haul Distance (km)													
Doris Waste													
Bench 20 -- to Road Const.	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Bench 15 -- to Road Const.	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Bench 10 -- to Airstrip Const.	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Bench 05 -- to Airstrip Const.	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Bench 00 -- to Airstrip Const.	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Bench -05 -- to Tailings Const.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Bench -10 -- to Tailings Const.	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Bench -15 -- to Tailings Const.	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Bench -20 -- to Tailings Const.	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Doris Ore													
Bench 20	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-
Bench 15	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-
Bench 10	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Bench 05	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Bench 00	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Bench -05	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Bench -10	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Bench -15	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Bench -20	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Weighted Average	-	-	-	-	-	-	1.6	3.3	3.2	1.7	-	-	2.4
Haul Distances by Rock Type													
Smooth Terrain													
Doris Waste	-	-	-	-	-	-	1.4	3.2	3.4	1.9	-	-	2.5
Doris Ore	-	-	-	-	-	-	-	0.4	0.4	0.4	-	-	0.4
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Rough Terrain													
Doris Waste	-	-	-	-	-	-	0.2	0.2	0.2	0.2	-	-	0.2
Doris Ore	-	-	-	-	-	-	-	0.2	0.2	0.2	-	-	0.2
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													
Doris Waste	-	-	-	-	-	-	1.6	3.4	3.6	2.1	-	-	2.7
Doris Ore	-	-	-	-	-	-	-	0.6	0.6	0.6	-	-	0.6
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Weighted Average	-	-	-	-	-	-	1.6	3.3	3.2	1.7	-	-	2.4
Pit Average Depth (m)													
Cycle Times													
Average Truck Cycle Times - 988 Loading 773s (min)													
Doris Waste	-	-	-	-	-	-	14.7	21.8	22.8	17.1	-	-	19.2
Doris Ore	-	-	-	-	-	-	-	9.9	10.2	10.4	-	-	10.4
Other	-	-	-	-	-	-	-	-	-	-	-	-	-
Weighted Average	-	-	-	-	-	-	14.7	21.5	21.4	15.6	-	-	18.3
Operating Days													**123**

Nuna Logistics Ltd.
Hope Bay Project
Open Pit Mining & Earthworks Construction

Schedule 3: Production Equipment Requirements - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.
1-Feb-02
DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Directs - Production Equipment - Nuna													
Operating Hours													
Cat 773 Trucks	-	-	-	-	-	-	843	1,390	1,562	1,386	-	-	5,182
Cat 988 Loaders	-	-	-	-	-	-	314	353	397	477	-	-	1,540
D8 Dozers	-	-	-	-	-	-	420	472	530	635	-	-	2,057
Equipment Required on Site													
Cat 773 Trucks	-	-	-	-	-	-	2	4	4	4	-	-	
Cat 988 Loaders	-	-	-	-	-	-	2	2	2	2	-	-	
D8 Dozers	-	-	-	-	-	-	2	2	2	2	-	-	
Production Equipment Costs ($ thousands)													
Cat 773 Trucks	$ -	$ -	$ -	$ -	$ -	$ -	$ 147.8	$ 243.7	$ 273.8	$ 242.9	$ -	$ -	$ 908.3
Cat 988 Loaders	$ -	$ -	$ -	$ -	$ -	$ -	$ 64.9	$ 72.9	$ 82.1	$ 98.6	$ -	$ -	$ 318.5
D8 Dozers	$ -	$ -	$ -	$ -	$ -	$ -	$ 73.5	$ 82.5	$ 92.7	$ 111.1	$ -	$ -	$ 359.7
	$ -	$ -	$ -	$ -	$ -	$ -	$ 286.2	$ 399.1	$ 448.6	$ 452.6	$ -	$ -	$ 1,586.6
Directs - Production Equipment - Crushing													
Operating Hours - Crushing													
30"x48" Jaw & 4.25' Cone Plant													670
Equipment Required on Site													
30"x48" Jaw & 4.25' Cone Plant	-	-	-	-	-	-	1	1	1	1	-	-	
Production Equipment Costs ($ thousands)													
30"x48" Jaw & 4.25' Cone Plant	$ -	$ -	$ -	$ -	$ -	$ -	$ 26.0	$ 36.0	$ 36.0	$ 36.0	$ -	$ -	$ 134.0
	$ -	$ -	$ -	$ -	$ -	$ -	$ 26.0	$ 36.0	$ 36.0	$ 36.0	$ -	$ -	$ 134.0
Directs - Production Equipment - Drilling Contractor													
Operating Hours - Drilling													
Production Drills								248					1,098
Pioneering Drills	-							-					-
Equipment Required on Site													
Production Drills	-	-	-	-	-	-	1	1	1	1	-	-	
Pioneering Drills	-	-	-	-	-	-	-	-	-	-	-	-	
Production Equipment Costs ($ thousands)													
Production Drills	$ -	$ -	$ -	$ -	$ -	$ -	$ 39.9	$ 45.0	$ 51.3	$ 62.6	$ -	$ -	$ 198.7
Pioneering Drills	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
	$ -	$ -	$ -	$ -	$ -	$ -	$ 39.9	$ 45.0	$ 51.3	$ 62.6	$ -	$ -	$ 198.7

Note: Equipment Hours reflects requirement before taking availability and usage into account. Equipment on-site reflects the requirement after taking availability and usage into account.

Nuna Logistics Ltd.
Hope Bay Project
Open Pit Mining & Earthworks Construction

Schedule 4: Support Equipment Requirements - Year 1
Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.
1-Feb-02
DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Directs - Support Equipment - Nuna Hourly													
Support Equipment Operating Hours													
14G Grader													1,261
Cat 330 Excavator													1,891
Cat CS563C Packer													-
Fuel/Service Truck													1,261
Western Star Plow Truck													629
Picker Truck - 25 ton													252
Support Equipment Required On-Site													
14G Grader	-	-	-	-	-	-	1	1	1	1	-	-	
Cat 330 Excavator	-	-	-	-	-	-	1	1	1	1	-	-	
Cat CS563C Packer	-	-	-	-	-	-	-	-	-	-	-	-	
Fuel/Service Truck	-	-	-	-	-	-	1	1	1	1	-	-	
Western Star Plow Truck	-	-	-	-	-	-	1	1	1	1	-	-	
Picker Truck - 25 ton	-	-	-	-	-	-	1	1	1	1	-	-	
Support Equipment Costs ($ thousands)													
14G Grader	$ -	$ -	$ -	$ -	$ -	$ -	$ 32.2	$ 32.2	$ 31.2	$ 32.2	$ -	$ -	$ 127.9
Cat 330 Excavator	$ -	$ -	$ -	$ -	$ -	$ -	$ 66.9	$ 66.9	$ 64.7	$ 66.9	$ -	$ -	$ 265.5
Cat CS563C Packer	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Fuel/Service Truck	$ -	$ -	$ -	$ -	$ -	$ -	$ 23.6	$ 23.6	$ 22.8	$ 23.6	$ -	$ -	$ 93.7
Western Star Plow Truck	$ -	$ -	$ -	$ -	$ -	$ -	$ 25.7	$ 25.7	$ 24.9	$ 8.6	$ -	$ -	$ 84.8
Picker Truck - 25 ton	$ -	$ -	$ -	$ -	$ -	$ -	$ 6.4	$ 6.4	$ 6.2	$ 6.4	$ -	$ -	$ 25.4
	$ -	$ -	$ -	$ -	$ -	$ -	$ 154.8	$ 154.8	$ 149.8	$ 137.7	$ -	$ -	$ 597.2
Directs - Support Equipment - Drilling Contractor													
Support Equipment Operating Hours													
Blasting Truck													-
Crew Cab													1,476
Support Equipment Required On-Site													
Blasting Truck	-	-	-	-	-	-	-	-	-	-	-	-	
Crew Cab	-	-	-	-	-	-	1	1	1	1	-	-	
Support Equipment Costs ($ thousands)													
Blasting Truck	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Crew Cab	$ -	$ -	$ -	$ -	$ -	$ -	$ 1.1	$ 1.1	$ 1.1	$ 1.1	$ -	$ -	$ 4.4
	$ -	$ -	$ -	$ -	$ -	$ -	$ 1.1	$ 1.1	$ 1.1	$ 1.1	$ -	$ -	$ 4.4
Directs - Support Equipment - Nuna Monthly													
Support Equipment Operating Hours													
Crew Cabs						-	2,224	2,224	1,853	2,224			8,825
Lighting Plants						-	1,335	1,144	923	191			3,592
Heaters						-	3,178	3,178	875	3,178			12,608
Support Equipment Required On-Site													
Crew Cabs	-	-	-	-	-	-	5	5	5	5	-	-	
Lighting Plants	-	-	-	-	-	-	3	3	2	1	-	-	
Heaters	-	-	-	-	-	-	7	7	7	7	-	-	
Support Equipment Costs ($ thousands)													
Crew Cabs	$ -	$ -	$ -	$ -	$ -	$ -	$ 12.1	$ 12.1	$ 11.7	$ 12.1	$ -	$ -	$ 47.9
Lighting Plants	$ -	$ -	$ -	$ -	$ -	$ -	$ 4.3	$ 4.3	$ 2.8	$ 1.4	$ -	$ -	$ 12.7
Heaters	$ -	$ -	$ -	$ -	$ -	$ -	$ 17.5	$ 17.5	$ 8.5	$ 3.5	$ -	$ -	$ 46.9
	$ -	$ -	$ -	$ -	$ -	$ -	$ 33.8	$ 33.8	$ 22.9	$ 17.0	$ -	$ -	$ 107.5

Note: Equipment Hours reflects requirement before taking availability and usage into account. Equipment on-site reflects the requirement after taking availability and usage into account.

Nuna Logistics Ltd. | **Schedule 5: Support Facilities Requirements - Year 1** | **Prepared by Nuna Logistics Ltd.**

Hope Bay Project | **Prefeasibility Level Cost Estimate** | 1-Feb-02

Open Pit Mining & Earthworks Construction | DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Support Facilities - Nuna													
Support Facilities Required On-Site													
Camp & Office Facility													
Shop Facility													
Fuel Storage													
Electric Power (gen. & distrib.)													
Communications - Site Radios													
Communications - Satellite Phone													
Support Facilities Costs ($ thousands)													
Camp & Office Facility	$ -	$ -	$ -	$ -	$ -	$ -	$ 36.7	$ 36.7	$ 35.5	$ 36.7	$ -	$ -	$ 145.7
Shop Facility	$ -	$ -	$ -	$ -	$ -	$ -	$ 18.8	$ 18.8	$ 18.2	$ 18.8	$ -	$ -	$ 74.4
Fuel Storage	$ -	$ -	$ -	$ -	$ -	$ -	$ 4.1	$ 4.1	$ 3.9	$ 4.1	$ -	$ -	$ 16.2
Electric Power (gen. & distrib.)	$ -	$ -	$ -	$ -	$ -	$ -	$ 23.8	$ 23.8	$ 23.0	$ 23.8	$ -	$ -	$ 94.3
Communications - Site Radios	$ -	$ -	$ -	$ -	$ -	$ -	$ 2.0	$ 2.0	$ 2.0	$ 2.0	$ -	$ -	$ 8.1
Communications - Satellite Phone	$ -	$ -	$ -	$ -	$ -	$ -	$ 30.6	$ 30.6	$ 29.6	$ 30.6	$ -	$ -	$ 121.4
	$ -	$ -	$ -	$ -	$ -	$ -	$ 115.9	$ 115.9	$ 112.2	$ 115.9	$ -	$ -	$ 460.0

Nuna Logistics Ltd.
Hope Bay Project
Open Pit Mining & Earthworks Construction

Schedule 6: Labour Requirements - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.
1-Feb-02
DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Labour Requirement - Nuna													
Supervisory and Administrative (per 24 hour day)													
Project Superintendent													
Foremen								1.0					
Safety								-					
Training								-					
Warehousemen								-					
Administrator								1.0					
Purchaser								-					
Operators (per 24 hour day)								-					
Production Equipment								-					
Trucks								6.0					
Shovel/ME Operator								-					
Loaders							3.0	3.0					
Dozers							4.0	4.0					
Excavators							-	-					
Crusher							1.0	1.0					
Support Equipment								-					
Graders							1.0	1.0					
Packers							-	-					
Other Equipment							2.0	2.0					
Labourers							-	-					
Mechanical (per 24 hour day)													
Mechanics							4.0	4.0					
Welders							2.0	2.0					
Servicemen/Support							2.0						
Labourers							2.0						
Facility Support (per 24 hour day)													
Carpenters							-						
Electricians							-						
Operators							-						
Labourers							-						
Labour Requirement - Drilling Contractor													
Superintendent							-						
Foreman							1.0						
Driller							2.0						
Blaster							1.0						
Helper							1.0						
Mechanic							1.0						
Administrator							-						
Labour Requirement - Projects Contractor													
Foreman							-						
Labourer							-						
Labour Requirement - Survey Contractor													
Crew Chief							1.0						
Instrumentman							-						
Survey Assistant							1.0						
Total On-Site (per 24 hour day)	-	-	-	-	-	-	35	38	38	37	-	-	
Camp Man-Days	-	-	-	-	-	-	*1,085*	*1,178*	*1,140*	*1,147*	-	-	*4,550*
Round Trip Airfares	-	-	-	-	-	-	*52*	*56*	*54*	*55*	-	-	*217*

Nuna Logistics Ltd.
Hope Bay Project
Open Pit Mining & Earthworks Construction

Schedule 7: Manhours Estimate - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.
1-Feb-02
DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Manhours - Nuna (includes Incidental O/T)													
Supervisory and Administrative													
Project Superintendent	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Foremen	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Safety	-	-	-	-	-	-	-	-	-	-	-	-	-
Training	-	-	-	-	-	-	-	-	-	-	-	-	-
Warehousemen	-	-	-	-	-	-	-	-	-	-	-	-	-
Administrator	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Purchaser	-	-	-	-	-	-	-	-	-	-	-	-	-
Operators													
Production Equipment													
Trucks	-	-	-	-	-	-	1,023	2,046	1,980	1,705	-	-	6,754
Shovel/ME Operator	-	-	-	-	-	-	-	-	-	-	-	-	-
Loaders	-	-	-	-	-	-	1,023	1,023	990	1,023	-	-	4,059
Dozers	-	-	-	-	-	-	1,364	1,364	1,320	1,364	-	-	5,412
Excavators	-	-	-	-	-	-	-	-	-	-	-	-	-
Crusher	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Support Equipment													
Graders	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Packers	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Equipment	-	-	-	-	-	-	682	682	660	682	-	-	2,706
Labourers	-	-	-	-	-	-	-	-	-	-	-	-	-
Mechanical													
Mechanics	-	-	-	-	-	-	1,364	1,364	1,320	1,364	-	-	5,412
Welders	-	-	-	-	-	-	682	682	660	682	-	-	2,706
Servicemen/Support	-	-	-	-	-	-	682	682	660	682	-	-	2,706
Labourers	-	-	-	-	-	-	682	682	660	682	-	-	2,706
Facility Support													
Carpenters	-	-	-	-	-	-	-	-	-	-	-	-	-
Electricians	-	-	-	-	-	-	-	-	-	-	-	-	-
Operators	-	-	-	-	-	-	-	-	-	-	-	-	-
Labourers	-	-	-	-	-	-	-	-	-	-	-	-	-
Manhours - Drilling Contractor													
Superintendent	-	-	-	-	-	-	-	-	-	-	-	-	-
Foreman	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Driller	-	-	-	-	-	-	682	682	660	682	-	-	2,706
Blaster	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Helper	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Mechanic	-	-	-	-	-	-	341	341	330	341	-	-	1,353
Administrator	-	-	-	-	-	-	-	-	-	-	-	-	-
Manhours - Projects Contractor													
Foreman	-	-	-	-	-	-	-	-	-	-	-	-	-
Labourer	-	-	-	-	-	-	-	-	-	-	-	-	-
Manhours - Survey Contractor													
Crew Chief	-	-	-	-		-	341	341	330	341	-	-	1,353
Instrumentman	-	-	-	-		-	-	-	-	-	-	-	-
Survey Assistant	-	-	-	-		-	341	341	330	341	-	-	1,353
Total Manhours	-	-	-	-	-	-	11,935	12,958	12,540	12,617	-	-	50,050

Nuna Logistics Ltd.
Hope Bay Project
Open Pit Mining & Earthworks Construction

Schedule 8: Labour Cost Estimate - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.
1-Feb-02
DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Labour Cost - Nuna ($ thousands)													
Supervisory and Administrative													
Project Superintendent	$ -	$ -	$ -	$ -	$ -	$ -	$ 30.7	$ 30.7	$ 29.7	$ 30.7	$ -	$ -	$ 121.7
Foremen	$ -	$ -	$ -	$ -	$ -	$ -	$ 22.1	$ 22.1	$ 21.4	$ 22.1	$ -	$ -	$ 87.8
Safety	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Training	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Warehousemen	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Administrator	$ -	$ -	$ -	$ -	$ -	$ -	$ 18.2	$ 18.2	$ 17.6	$ 18.2	$ -	$ -	$ 72.0
Purchaser	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operators													
Production Equipment													
Trucks	$ -	$ -	$ -	$ -	$ -	$ -	$ 57.9	$ 115.8	$ 112.0	$ 96.5	$ -	$ -	$ 382.1
Shovel/ME Operator	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Loaders	$ -	$ -	$ -	$ -	$ -	$ -	$ 64.7	$ 64.7	$ 62.6	$ 64.7	$ -	$ -	$ 256.7
Dozers	$ -	$ -	$ -	$ -	$ -	$ -	$ 86.3	$ 86.3	$ 83.5	$ 86.3	$ -	$ -	$ 342.3
Excavators	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Crusher	$ -	$ -	$ -	$ -	$ -	$ -	$ 21.0	$ 21.0	$ 20.3	$ 21.0	$ -	$ -	$ 83.3
Support Equipment													
Graders	$ -	$ -	$ -	$ -	$ -	$ -	$ 21.0	$ 21.0	$ 20.3	$ 21.0	$ -	$ -	$ 83.3
Packers	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ 42.0	$ 42.0	$ 40.6	$ 42.0	$ -	$ -	$ 166.6
Labourers	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Mechanical													
Mechanics	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	$ -
Welders	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	$ -
Servicemen/Support	$ -	$ -	$ -	$ -	$ -	$ -	$ 39.7	$ 39.7	$ 38.4	$ 39.7	$ -	$ -	$ 157.6
Labourers	$ -	$ -	$ -	$ -	$ -	$ -	$ 35.2	$ 35.2	$ 34.0	$ 35.2	$ -	$ -	$ 139.5
Facility Support													
Carpenters	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Electricians	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Operators	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Labourers	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Labour Cost - Drilling Contractor ($ thousands)													
Superintendent	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Foreman	$ -	$ -	$ -	$ -	$ -	$ -	$ 18.1	$ 18.1	$ 17.5	$ 18.1	$ -	$ -	$ 71.7
Driller	$ -	$ -	$ -	$ -	$ -	$ -	$ 32.7	$ 32.7	$ 31.7	$ 32.7	$ -	$ -	$ 129.9
Blaster	$ -	$ -	$ -	$ -	$ -	$ -	$ 16.7	$ 16.7	$ 16.2	$ 16.7	$ -	$ -	$ 66.3
Helper	$ -	$ -	$ -	$ -	$ -	$ -	$ 12.3	$ 12.3	$ 11.9	$ 12.3	$ -	$ -	$ 48.7
Mechanic	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	$ -
Administrator	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Labour Cost - Projects Contractor ($ thousands)													
Foreman	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Labourer	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Labour Cost - Survey Contractor ($ thousands)													
Crew Chief	$ -	$ -	$ -	$ -	$ -	$ -	$ 19.8	$ 19.8	$ 19.1	$ 19.8	$ -	$ -	$ 78.5
Instrumentman	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Survey Assistant	$ -	$ -	$ -	$ -	$ -	$ -	$ 9.5	$ 9.5	$ 9.2	$ 9.5	$ -	$ -	$ 37.9
Total Labour Cost Estimate	$ -	$ -	$ -	$ -	$ -	$ -	$ 547.8	$ 605.7	$ 586.2	$ 586.4	$ -	$ -	$ 2,326.2

Note: Supervisory & Administration Personnel denoted N/C are non-chargeable (included as overheads in hourly rates). Mechanics & Welders denoted N/C are non-chargeable (included in equipment rates).

Nuna Logistics Ltd. | **Schedule 9: Standby Costs - Year 1** | **Prepared by Nuna Logistics Ltd.**

Hope Bay Project | **Prefeasibility Level Cost Estimate** | 1-Feb-02

Open Pit Mining & Earthworks Construction | DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Standby Costs ($ thousands)													
Nuna Mobile Equipment	$45.0	$45.0	$45.0	$45.0	$45.0	$45.0	$0.0	$0.0			$45.0	$45.0	$360.0
Nuna Facilities	$81.7	$81.7	$81.7	$81.7	$81.7	$81.7	$0.0	$0.0	$0.0	$0.0	$81.7	$81.7	$653.6
Drill Contractor Equipment	$8.0	$8.0	$8.0	$8.0	$8.0	$8.0	$0.0	$0.0	$0.0	$0.0	$8.0	$8.0	$64.0
	$134.7	$134.7	$134.7	$134.7	$134.7	$134.7	$0.0	$0.0	$0.0	$0.0	$134.7	$134.7	$1,077.6

Nuna Logistics Ltd.
Hope Bay Project
Open Pit Mining & Earthworks Construction

Schedule 10: Cost Summary - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.
1-Feb-02
DJF/CDS

Estimated Costs ($ thousands)	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Mobilization													
Off-Site Preparations	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Freight	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
On-Site Assembly	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Labour													
Nuna Logistics													
Supervision & Administration	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$71.0	$71.0	$68.7	$71.0	$0.0	$0.0	$281.6
Truck Drivers	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$57.9	$115.8	$112.0	$96.5	$0.0	$0.0	$382.1
Equipment Operators	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$214.0	$214.0	$207.1	$214.0	$0.0	$0.0	$849.0
Crusher Operators & Helpers	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$21.0	$21.0	$20.3	$21.0	$0.0	$0.0	$83.3
Servicemen	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$39.7	$39.7	$38.4	$39.7	$0.0	$0.0	$157.6
Labourers	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$35.2	$35.2	$34.0	$35.2	$0.0	$0.0	$139.5
Drilling Contractor	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$79.8	$79.8	$77.2	$79.8	$0.0	$0.0	$316.6
Survey Contractor	$0.0	$0.0	$0.0	$0.0		$0.0	$29.3	$29.3	$28.4	$29.3	$0.0	$0.0	$116.4
	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$547.8	$605.7	$586.2	$586.4	$0.0	$0.0	$2,326.2
Equipment													
Nuna Logistics													
Production Equipment	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$312.2	$435.1	$484.6	$488.6	$0.0	$0.0	$1,720.6
Support Equipment	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$188.6	$188.6	$172.7	$154.7	$0.0	$0.0	$704.7
Drilling Contractor	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$41.0	$46.1	$52.3	$63.8	$0.0	$0.0	$203.2
Survey Contractor		$0.0			$0.0	$0.0	$5.0	$5.0	$5.0	$5.0	$0.0	$0.0	$20.0
	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$546.8	$674.8	$714.7	$712.1	$0.0	$0.0	$2,648.4
Other													
Explosives (Incl. Freight)	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$38.4	$43.1	$48.5	$58.2	$0.0	$0.0	$188.3
Fuel for Explosives	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$2.4	$2.7	$3.1	$3.7	$0.0	$0.0	$11.9
Camp Catering	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Airfares	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Pit Dewatering				$0.0	$0.0		$0.0	$0.0					$0.0
Permanent Materials	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Winter Road Access	$0.0	$0.0	$0.0	$0.0	$0.0	$40.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$40.0
	$0.0	$0.0	$0.0	$0.0	$0.0	$40.0	$40.8	$45.9	$51.6	$61.8	$0.0	$0.0	$240.1
Demobilization													
On-Site Preparations	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Freight	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
On-Site Disassembly	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Subtotal Mining & Construction	$0.0	$0.0	$0.0	$0.0	$0.0	$40.0	$1,135.5	$1,326.4	$1,352.4	$1,360.3	$0.0	$0.0	$5,214.7
Facilities & Standby Costs													
Facilities & Gensets	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$115.9	$115.9	$112.2	$115.9	$0.0	$0.0	$460.0
Fuel for Gensets	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$70.0	$70.0	$70.0	$70.0	$0.0	$0.0	$280.0
Standby Costs	$134.7	$134.7	$134.7	$134.7	$134.7	$134.7	$0.0	$0.0	$0.0	$0.0	$134.7	$134.7	$1,077.6
Subtotal Facilities & Standby Costs	$134.7	$134.7	$134.7	$134.7	$134.7	$134.7	$185.9	$185.9	$182.2	$185.9	$134.7	$134.7	$1,817.6
Contingency	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Quantity Increase Allowance	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Total Estimated Costs	$134.7	$134.7	$134.7	$134.7	$134.7	$174.7	$1,321.4	$1,512.4	$1,534.6	$1,546.3	$134.7	$134.7	$7,032.3

Note: Fuel Costs are included in the costs. Transportation Costs are included in the costs. (in Labour Rates) Camp Catering Costs are included in the costs. (in Labour Rates)

Nuna Logistics Ltd.

Hope Bay Project

Open Pit Mining & Earthworks Construction

Attachment A: Fuel Requirements - Year 1

Prefeasibility Level Cost Estimate

Prepared by Nuna Logistics Ltd.

1-Feb-02

DJF/CDS

	Sept Month 1	Oct Month 2	Nov Month 3	Dec Month 4	Jan Month 5	Feb Month 6	Mar Month 7	Apr Month 8	May Month 9	June Month 10	July Month 11	Aug Month 12	Year 1 Total
Fuel Consumption (Litres)													
Production Equipment - Nuna													
Cat 773 Trucks	-	-	-	-	-	-	44,696	73,692	82,795	73,442	-	-	274,624
Cat 966 Loaders	-	-	-	-	-	-	14,748	16,569	18,657	22,417	-	-	72,390
D8 Dozers	-	-	-	-	-	-	18,909	21,229	23,858	28,588	-	-	92,585
Crushing Equipment - Nuna													
30"x48" Jaw & 4.25' Cone Plant	-	-	-	-	-	-	20,800	28,800	28,800	28,800	-		107,200
Production Equipment - Drilling Contractor													
Production Drills	-	-	-	-	-	-	24,228	27,325	31,150	38,073	-	-	120,776
Support Equipment - Nuna (Hourly)													
14G Grader	-	-	-	-	-	-	8,897	8,897	8,610	8,897	-	-	35,301
Cat 330 Excavator	-	-	-	-	-	-	12,869	12,869	12,454	12,869	-	-	51,060
Fuel/Service Truck	-	-	-	-	-	-	6,355	6,355	6,150	6,355	-	-	25,215
Western Star Plow Truck	-	-	-	-	-	-	6,101	6,101	5,904	2,034	-	-	20,139
Picker Truck - 25 ton	-	-	-	-	-	-	953	953	923	953	-	-	3,782
Support Equipment - Nuna (Monthly)													
Crew Cabs	-	-	-	-	-	-	2,224	2,224	2,153	2,224	-	-	8,825
Lighting Plants	-	-	-	-	-	-	2,669	2,288	1,845	381	-	-	7,183
Heaters	-	-	-	-	-	-	12,710	12,710	12,300	12,710	-	-	50,430
Support Equipment - Drilling Contractor													
Crew Cab	-	-	-	-	-	-	744	744	720	744	-	-	2,952
Fuel for Explosives	-	-	-	-	-	-	3,461	3,887	4,370	5,240	-	-	16,958
Fuel for Facilities	-	-	-	-	-	-	100,000	100,000	100,000	100,000	-	-	400,000
Total Litres	-	-	-	-	-	-	280,364	324,642	340,688	343,726	-	-	1,289,421

Note: Fuel Costs are included in Nuna Logistics Total Costs.