

APPENDIX C

UPDATE

OF ESTIMATED

MINE DECOMMISSIONING, RECLAMATION
AND
MONITORING COSTS

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING COST ESTIMATE
2nd QUARTER 2003 UPDATE

	BUDGET		June 30, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		NOTES
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
DEMOLITION & RECLAMATION (BARE COSTS)							
MINE EQUIPMENT REMOVAL							
Hazardous Materials Removal	35,845		853		35,845		
Mine Refrigeration Plant	145,525		6,000		145,525		
Mobile & Mine Equipment	2,919		87		12,919		
Remove Salvaged Mine Equipment	20,754		3,983		-		
Misc Sub Contract Costs	45,957		945		45,533		
	\$	251,000	\$	11,868	\$	239,822	
MINE ACCESS SEALING							
Seal Mine Portals	60,000		464		90,459		
	\$	60,000	\$	464	\$	90,459	
CONCENTRATOR BUILDING							
Miscellaneous Materials	22,092				-		
Mill Equipment Clean-Up - Fuels	16,398				-		
Mill Equipment Clean-Up	99,900		40,613		79,333		
Hazardous Materials Removal	151,117		85,352		197,099		
Barge Demolition	608,592		174,694		553,459		
Misc Process Equipment Demolition & Removal	197,432		183,317		183,346		
Misc Sub Contract Costs	88,469		27,909		80,806		
	\$	1,164,000	\$	511,885	\$	1,094,043	
CONCENTRATE STORAGE STRUCTURE & EQUIPMENT							
Concentrate Storage Equipment Clean-Up	26,117		1,905		26,117		
Conveyors	67,600		8,421		61,525		
Concentrate Storage Structure & Equipment	555,283		25,816		505,036		
	\$	649,000	\$	36,142	\$	592,678	
SHIP LOADER & CONVEYOR							
Conveyors	50,000		24,592		29,580		
	\$	50,000	\$	24,592	\$	29,580	
DOCK & SHORELINE							
Dock & Shoreline Reclamation	869,000		55,867		769,131		
	\$	869,000	\$	55,867	\$	769,131	
THICKENER & TAILINGS LINES							
Hazardous Materials Removal	22,577		13,331		33,838		
Tailings Thickener	377,423		58,015		107,759		
	\$	400,000	\$	71,346	\$	141,597	
GARROW LAKE							
Garrow Lake Siphons & Lake Drawdown	120,391		142,312		203,192		
Dam/Spillway Modifications	95,467				137,267		
Escalation Allowance	3,142				-		
	\$	219,000	\$	142,312	\$	340,459	
CRF PLANT STRUCTURE & EQUIPMENT							
CRF Plant Equipment Clean-Up	7,002		1,040		1,041		
CRF Plant Equipment Removal	17,533		9,406		9,404		
CRF Plant Buildings Demolition	130,455		22,169		27,019		
Misc Sub Contract Costs	11,010		39,011		51,857		
	\$	166,000	\$	71,626	\$	89,321	
ACCOMMODATION COMPLEX STRUCTURE & EQUIPMENT							
Accommodation Complex Building Demolition	249,000		10,211		226,441		
	\$	249,000	\$	10,211	\$	226,441	
FUEL STORAGE & HANDLING EQUIPMENT							
Miscellaneous Materials	3,681				(1,319)		
Purge & Decommission Fuel Tanks	53,404		200,741		319,000		
Hazardous Materials Removal	50,645		39,452		64,272		
Fuel Pumping & Distribution Systems	87,270				90,133		
	\$	195,000	\$	240,193	\$	472,086	
BUILDINGS & CONTAINERS							
Miscellaneous Materials	1,323				-		
Misc Warehouse / Shipping Equipment	1,221		3,292		3,292		
Misc Buildings Demolition	250,456		32,133		243,960		
	\$	253,000	\$	35,425	\$	247,252	
MISC CONTRACTOR LABOUR							
Unallocated Labour	133,000		70,408		215,994		
	\$	133,000	\$	70,408	\$	215,994	
GENERAL SITE GRADING							
Hazardous Materials Removal	44,719		2,041		46,760		
General Site Grading & Reclamation	7,129		170,956		168,832		
Escalation Allowance	4,152				-		
	\$	56,000	\$	172,997	\$	215,592	
LANDFILL RECLAMATION							
Landfill Reclamation	432,000		503,921		552,315		
	\$	432,000	\$	503,921	\$	552,315	

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING COST ESTIMATE
2nd QUARTER 2003 UPDATE

	BUDGET		June 30, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		NOTES
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
CONTAMINATED SOILS - CLEANUP							
Metals & Hydrocarbon Contaminated Soils Cleanup & Disposal	366,623		205,020		823,069		
Hydrocarbon Contaminated Soils (By Polaris)	6,097		13,131		13,131		
Metals Contaminated Soils (By Polaris)	173,605		52,382		52,382		
U/G Handling & Disposal Of Contaminated Soils	48,675		21,632		65,110		
		\$ 595,000		\$ 292,165		\$ 953,692	
QUARRIES & MINE SURFACE RECLAMATION (EARTHWORK)							
Backfill & Re-Contouring	263,000		87,165		219,312		
		\$ 263,000		\$ 87,165		\$ 219,312	
MISC. DEMOLITION & CLEAN-UP							
Misc Unallocated Clean-Up / Demo	380,000		2,452		44,157		
		\$ 380,000		\$ 2,452		\$ 44,157	
EQUIPMENT PURCHASE/RENTAL							
Contractor Equipment Rental	5,274,900		2,064,425		5,274,900		
Contractor Misc Equipment Purchase	719,407		431,759		448,309		
Escalation Allowance	59,693				-		
		\$ 6,054,000		\$ 2,496,184		\$ 5,723,209	
MISC. SERVICES & SUPPLIES							
Misc Purchased Materials / Supplies	235,333		142,147		219,789		
Escalation Allowance	19,667				-		
		\$ 255,000		\$ 142,147		\$ 219,789	
FUEL							
Fuel Supply	3,294,536		2,300,673		4,325,673		
Fuel Taxes (Heating & Power Generation)	68,677				99,727		
Fuel Taxes (Equipment)	467,343		207,153		677,493		
Escalation Allowance	157,444				-		
		\$ 3,988,000		\$ 2,507,826		\$ 5,102,893	
MAINTENANCE OF EQUIPMENT & FACILITIES							
Mobile Equip Maintenance	1,296,759		1,842,885		4,685,780		
Building Maintenance	506,923		902,076		1,196,778		
Escalation Allowance	101,318				-		
		\$ 1,905,000		\$ 2,744,961		\$ 5,882,558	
PRE - PURCHASED EQUIPMENT (BY COMINCO)							
Construction Equipment - Purchase (By Owner)	541,000		541,271		541,271		
		\$ 541,000		\$ 541,271		\$ 541,271	
CONTRACTOR'S FIELD SUPPORT & SUPPLIES							
TRANSPORTATION (SHIPPING)							
Packing & Preparation	85,326		13,852		92,804		
Shipping Costs	948,661		861,774		1,867,438		
Escalation Allowance	78,013				-		
		\$ 1,112,000		\$ 875,626		\$ 1,960,242	
CONTRACTOR MOB, DEMOB & SUPERVISION							
Contractor Mob/Demob	61,883		62,456		146,031		
Contractor Supervisory/Admin Personnel	2,127,339		1,084,351		2,839,195		
Safety Services & Supplies See Note 1	36,000		163,953		218,513		
Misc Temporary Services / Modifications	223,824		696,031		1,109,787		
Escalation Allowance	13,954				-		
		\$ 2,463,000		\$ 2,006,791		\$ 4,313,526	
MISC. SERVICES & SUPPLIES							
Communications & TV	374,000		77,374		290,679		
Escalation Allowance	31,000				-		
		\$ 405,000		\$ 77,374		\$ 290,679	
ACCOMODATIONS							
Catering	1,487,166		725,828		1,831,193		
Escalation Allowance	122,834				-		
		\$ 1,610,000		\$ 725,828		\$ 1,831,193	
TRAVEL & PERSONNEL							
Travel (Airlines & Expenses)	1,552,881		1,070,110		3,656,460		
Travel Premium - Revised Rotation Schedule	1,072,773				-		
Misc Personnel Transport	72,274		78,029		122,274		
Escalation Allowance	575,072				-		
		\$ 3,273,000		\$ 1,148,139		\$ 3,778,734	
CONTRACTOR INDIRECTS							
HO MOB & DEMOB SUPPORT							
Mob & Demob	1,912,000		1,526,300		1,912,376		
		\$ 1,912,000		\$ 1,526,300		\$ 1,912,376	
CONTRACTOR MANAGEMENT SUPPORT							
Personnel	3,928,932		670,506		3,928,932		
Safety & First Aid Personnel to Provide Overlap	184,068		31,350		183,644		
		\$ 4,113,000		\$ 701,856		\$ 4,112,576	
OTHER CONTRACTOR INDIRECTS							
Contractor's General Indirects	4,952,000		3,526,384		5,120,102		
		\$ 4,952,000		\$ 3,526,384		\$ 5,120,102	

POLARIS MINE DECOMMISSIONING, RECLAMATION AND MONITORING COST ESTIMATE
2nd QUARTER 2003 UPDATE

	BUDGET		June 30, 2003 CLAIMED TO DATE		FORECAST FINAL PROJECT COST		NOTES
	By Code	Subtotals	By Code	Subtotals	By Code	Subtotals	
ENGINEERING / PROJECT MANAGEMENT							
ENVIRONMENTAL SITE ASSESMENT							
Environmental Consultants - Site Assessment	275,787		254,823		276,417		
Site Assessment - Unallocated	207,874		105,263		191,524		
Escalation Allowance	2,339				-		
	\$	486,000	\$	360,086	\$	467,941	
CLOSURE PLAN							
Environmental Consultants - Closure Plan	415,772		371,776		365,772		
Escalation Allowance	2,228				-		
	\$	418,000	\$	371,776	\$	365,772	
ENGINEERING / SPECIAL CONSULTANTS							
Design Consultants - Dock / Loadout	1,316		1,320		1,320		
Design Consultants - Tailings / Garrow Lake	3,520		3,515		3,515		
Design Consultants - Dock / Loadout	79,684		64,838		79,477		
Design Consultants - Tailings / Garrow Lake	54,780		45,328		45,328		
Sitework & Demolition Procedures - Design Services	18,300		14,555		44,994		
Escalation Allowance	2,400				-		
	\$	160,000	\$	129,556	\$	174,634	
PROJECT MANAGEMENT CONSULTANT (HO STAFF)							
Project Management - Salaries	411,069		668,006		1,082,069		
Project Management - Reimb Expenses	100,000		49,890		100,000		
Escalation Allowance	31,931				-		
	\$	543,000	\$	717,896	\$	1,182,069	
CONSTRUCTION MANAGEMENT (FIELD STAFF)							
Construction Management - Salaries	2,142,878		693,990		1,755,878		
Escalation Allowance	179,122				-		
	\$	2,322,000	\$	693,990	\$	1,755,878	
ENVIRONMENTAL TESTING AND SAMPLING							
Environmental Reclamation Supervision - Staff	337,123		65,039		475,000		
Escalation Allowance	29,550				-		
Environmental Reclamation Supervision - Testing	330,000		76,369		210,000		
Additional Sampling and Consultant Services (MMER)	0		-		450,000		
Escalation Allowance	26,327				-		
	\$	723,000	\$	141,408	\$	1,135,000	
OWNER'S COSTS							
SALARIES & EXPENSES							
Teck Cominco HO Proj Mgmt (Staff Lab)	374,631		264,794		374,631		
Teck Cominco HO Proj Mgmt (Misc Material & Exp)	199,149		127,922		215,406		
Escalation Allowance	34,220				33,750		
	\$	608,000	\$	392,716	\$	623,787	
OVERHEAD / HO SUPPORT							
Land Leases, Licences	175,000		93,021		234,225		
Miscellaneous Permits	45,000		8,018		14,122		
Insurance	445,900		82,072		200,000		
Property Taxes	495,000		37,181		495,000		
Home Office General Admin (Labour & Exp)	722,384		14,058		109,212		
Public Relations	74,292		58,718		74,292		
Legal	57,540		48,021		48,021		
Escalation Allowance	168,560				-		
Misc Owner's Overhead	6,324		13,882		13,882		
	\$	2,190,000	\$	354,971	\$	1,188,754	
GENERAL ADMIN							
Closure Management - Polaris Personnel	54,000				-		
Escalation Allowance	2,880				-		
Closure Wrap Up	5,120		15,667		-		
	\$	62,000	\$	15,667	\$	-	
POST RECLAMATION COSTS (2005 - 2011)							
SITE MONITORING AND HOLDING COSTS							
Annual Post Closure Environmental Monitoring (2005 to 2011)	510,000		-		135,000		
Final Sampling Program, Data Evaluation and Reporting in 2011	160,000		-		70,000		
Land Lease/Licence costs from 2005 to 2011	126,000		-		126,000		
Property Taxes - 2005 to 2011	70,000		-		160,000		
Escalation Allowance	135,000		-		510,000		
	\$	1,001,000	\$	-	\$	1,001,000	
UNALLOCATED							
Uncoded Forecast Cost Adjustments (Net)	-		-		-1,357,008		1
	\$	-	\$	-	\$	(1,357,008)	
TOTAL DECOMMISSIONING / RECLAMATION & MONITORING COSTS							
	\$	47,500,000	\$	24,539,792	\$	53,860,906	

NOTE #1 - Identified potential cost adjustments to above accounts based on end of period review of manhours and materials costs to date - Not yet distributed to applicable accounts.

APPENDIX D

RECORD OF DEBRIS

PLACEMENT INTO

LITTLE RED DOG QUARRY LANDFILL

PLACEMENT OF DEBRIS INTO LRD QUARRY LANDFILL

2nd QUARTER, 2003

DRAWING OF WASTE PLACEMENT

The following drawing indicates the areas where debris was placed each month during the 2nd quarter of 2003 (April 1, 2003 to June 30, 2003). The locations represent the final placement locations and not temporary staging areas. The drawing also includes locations of debris place prior to the beginning of the quarter where the debris was placed at the same elevation in the pit.

This drawing represents the Second Lift (L2) of debris in the pit. The Second Lift of the debris is being placed into Bench 6 of LRD Quarry. The drawing indicates a different colour for each lift, year, and month that the debris was placed. For example 'L2 – 2003 – 05' represents Lift 2, for the month of May, 2003.

RECORD OF WASTE SOURCE/VOLUME & TYPE

Following the diagram are records from each month showing the source of the debris, where it was placed, the quantity and the type of debris.

VERIFICATION OF HYDROCARBON REMOVAL

Stationary and Mobile Equipment usually contain sources of hydrocarbons such as lubrication oils, fuels, greases and/or hydraulic oil. Attached to this appendix are signoff sheets indicating equipment that contained hydrocarbons were cleaned and/or drained of the hydrocarbons. After the equipment was drained and/or cleaned, they were inspected by our prime contractor, the demolition subcontractor and an owner representative. Each representative signs the inspection sheet once it has been verified that the equipment has been adequately drained. The only equipment prepared during this quarter relates to the power house facilities on the barge.

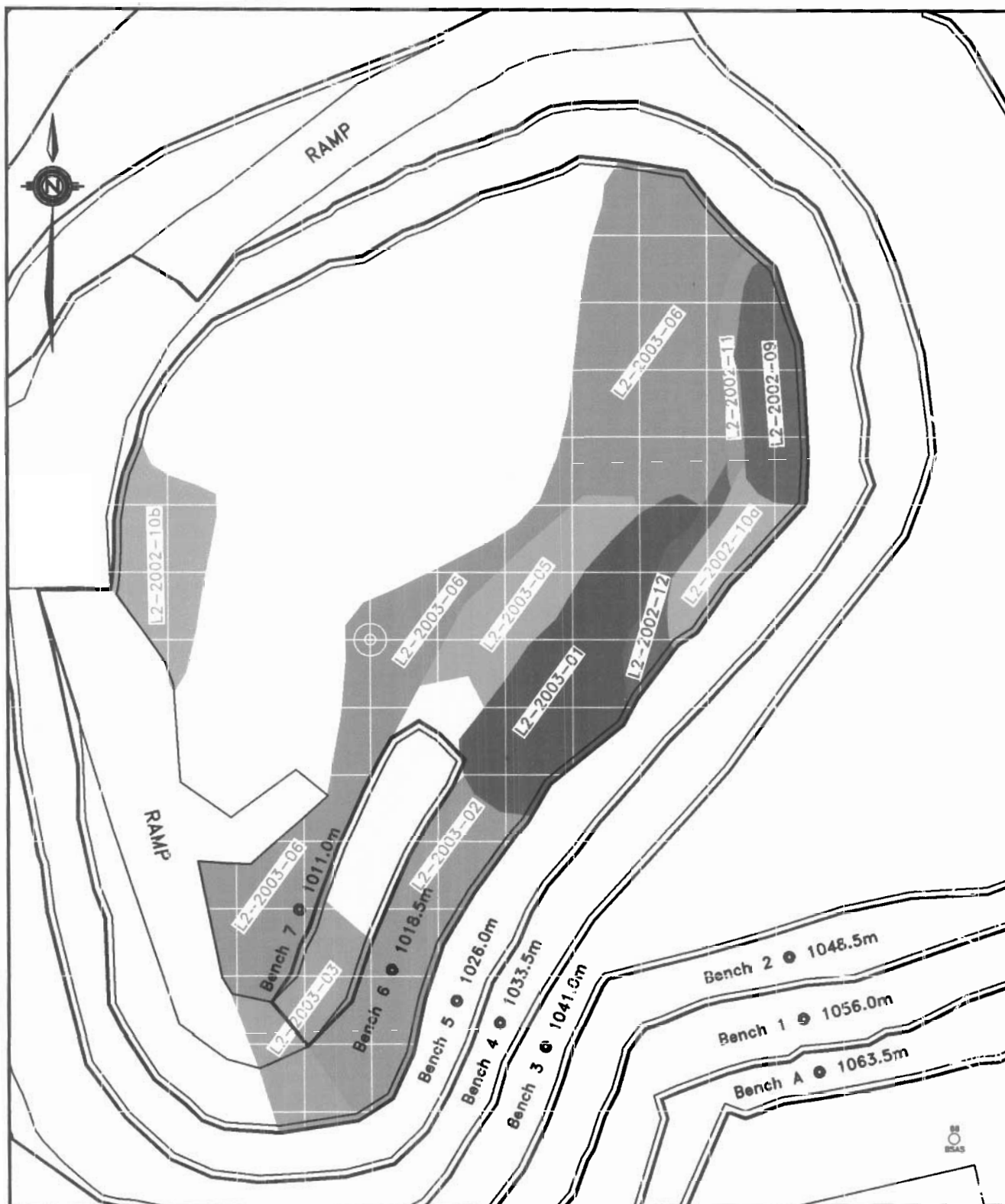
PHOTOGRAPHIC RECORD

As specified in the Closure Plan, a photographic record of debris placement is being maintained. Attached to this appendix are pictures of typical debris being placed in LRD Quarry.

The weather was too cold for the hydraulic shearers and bailer to function properly until May. Debris shown has been further processed using the bailer for siding and shearers for heavier steel prior to final burial.

The pictures are included in chronological order. Comments related to some of the pictures are as follows:

Date	Comment
2003 05 09	Secondary shearing of debris is underway
2003 05 20	The trailer mounted bailing machine is now in operation
2003 05 30	Temporary stock piles have separated out some different material types into separate piles for easier handling/cutting up prior to burial
2003 06 01	Note the pipes in the picture. These are return lines and not tailings lines. Tailings lines are being disposed of underground as per the Closure Plan.
2003 06 01	Note the large cylindrical ball mills. They are made of heavy walled steel and are difficult to cut into small pieces.
2003 06 14	The ball mills have been placed on end with one end cut off. This will allow filling of them so there are no voids caused when they are buried.
2003 06 24	Melting of snow and rain starting to cause water to pond in the quarry. This is helping to fill voids within the fill and will quickly freeze along with the landfill.



POLARIS PROJECT

teckcominco

LRD Quarry — **LIFT 02**

Demolition Debris Placement

drawn by TSF

scale 1:1000

date June 30, 2003

sheet 4

Polaris Mine Decommissioning and Reclamation Project

Daily Disposal Record For 2nd Quarter 2003

Structural Steel/Concrete/Building Components

Date	Origin location	Disposal Location	Disposal Location Details	Quantity (m3)	Remarks
04-Apr-03	Barge	L.R.D	Bench 5 (B13-B14)	500	Concrete from barge demolition.
04-Apr-03	Barge	L.R.D	Bench 6	50	Steel from demolition of the ball mill
18-Apr-03	Barge	L.R.D.	bench 6(H7)	100	ball mill
18-Apr-03	Barge	L.R.D.	bench 6 (G10)	20	steel
28-Apr-03	Barge	L.R.D.	Bench 6 (D13)	75	(6 loads)Concrete
28-Apr-03	Barge	L.R.D.	Bench 6 (D13)	240	(14 loads) Concrete
29-Apr-03	Barge	L.R.D.	Bench 6 (G9)	20	(2 loads) Steel
May 1, 03	Burn Pit	L.R.D.	Bench 6 (J4-I5)	165	(11 loads) steel + wood
May 2, 03	Barge	L.R.D.	Bench 6 (H8-J7)	105	(7 loads) steel
May 3, 03	Barge	L.R.D.	Bench 6 (F9-H8)	315	(21 loads) steel
May 8, 03	Barge	L.R.D.	Bench 6 (G5-6)	25	(1 load) rubber + steel
May 11, 03	Barge	L.R.D.	Bench 6 (G5-6)	20	(1 load) steel
May 11, 03	Thickener	L.R.D.	Bench 6 (G5-6)	30	(2 loads) steel
May 13, 03	Barge	L.R.D.	Bench 6 (F13-14)	40	(2 loads) steel
May 13, 03	Barge	L.R.D.	Bench 6 (F13-14)	140	(7 loads) steel
May 17, 03	Barge	L.R.D.	Bench 6	24	Steel
May 19, 03	Barge	L.R.D.	Bench 6	324	Steel
May 20, 03	Barge	L.R.D.	Bench 6	142	Steel
May 21, 03	Barge	L.R.D.	Bench 6	284	Steel
May 22, 03	Barge	L.R.D.	Bench 6	145	Steel
May 22, 03	Barge	Burn Pit	Bench 6	80	Steel
23-May-03	Storage	L.R.D.	Bench 6	110	Steel
24-May-03	Storage	L.R.D.	Bench 6	140	Steel
25-May-03	Storage	L.R.D.	Bench 6	130	Steel
25-May-03	Barge	L.R.D.	Bench 6	15	Steel
27-May-03	Storage	L.R.D.	Bench 6	168	Steel
28-May-03	Barge	L.R.D.	Bench 6	30	Steel
28-May-03	Storage	L.R.D.	Bench 6	162	Steel
29-May-03	Barge	L.R.D.	Bench 6	534	Steel
30-May-03	Barge	L.R.D.	Bench 6	478	Steel
29-May-03	Barge	L.R.D.	Bench 6	534	Steel
30-May-03	Barge	L.R.D.	Bench 6	478	Steel
31-May-03	Storage building	L.R.D.	Bench 6	64	Steel
31-May-03	Barge	L.R.D.	Bench 6	250	Steel

Structural Steel/Concrete/Building Components

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STATIONARY EQUIPMENT LUBRICANT EVACUATION CHECKLIST

Cominco Polaris Minesite Demolition and Reclamation Project
Daily Activity Log and Disposal Record

Date	Origin Location	Equipment Description	Lubricant/Fluid Type	Quantity if Appl.	Disposal Location	Sub-Contractor	SLEC	Owner/Rep
	BARGE POWER HOUSE	Domestic HOT WATER PUMP	Gear box oil		Future Incineration	Ch	PS	hal
	"	241-PP-08	"		"	Ch	PS	hal
	"	241-PP-09	"		"	Ch	PS	hal
	"	241-PP-10	"		"	Ch	PS	hal
	"	241-PP-11	"		"	Ch	PS	hal
	"	241-PP-12	Gear box oil		"	Ch	PS	hal
	"	HEATING WATER RECEIVER PUMP	"		Future Incineration	Ch	PS	hal
	"	241-PP-15	"		"	Ch	PS	hal
	"	241-PP-16	"		"	Ch	PS	hal
	"	Compressed AIR RECEIVER	D.O.		"	Ch	PS	hal
	"	241-RE-01	"		"	Ch	PS	hal
	"	241-RE-02	"		"	Ch	PS	hal
	"	FUEL OIL DRIP TANK	DIESEL FUEL		"	Ch	PS	hal
	"	241-TK-04	"		"	Ch	PS	hal
	"	HOT WATER TANK	"		"	Ch	PS	hal
	"	241-TK-07	"		"	Ch	PS	hal
	"	241-TK-08	"		"	Ch	PS	hal
	"	HOT WATER Expansion TANK	"		"	Ch	PS	hal
	"	241-TK-15	"		"	Ch	PS	hal
	"	241-TK-20	"		"	Ch	PS	hal
	"	241-TK-21	"		"	Ch	PS	hal

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Apr 12/03 to May 12/03

STATIONARY EQUIPMENT LUBRICANT EVACUATION CHECKLIST

Cominco Polarite Minesite Demolition and Reclamation Project
Daily Activity Log and Disposal Record

Date	Origin Location	Equipment Description	Lubricant/Fluid Type	Quantity If Appl.	Disposal Location	Sub-Contractor	SLEC	Owner/Ref
	BARGE	POWER HOUSE						
	"	241-TK-23 TANK	GLYCOL		FUTURE INCINERATION		P3	had
	"	MAX Diesel	LUBE OIL		"		P3	had
	"	244-GE-01 Generator	LUBE OIL		"		P3	had
	"	244-GE-02	LUBE OIL		"		P3	had
	"	244-GE-03	LUBE OIL		"		P3	had
	"	244-GE-04	LUBE OIL		"		P3	had
	"	Diesel Fuel Transfer	LUBE OIL		"		P3	had
	"	244-PP-07 Pump	DIESEL FUEL		"		P3	had
	"	244-PP-08	LUBE OIL		"		P3	had
	"	LUBE OIL PRIMING	DIESEL FUEL		"		P3	had
	"	244-PP-09 Pump	GEAR OIL BOX		"		P3	had
	"	244-PP-10	"		"		P3	had
	"	244-PP-11	"		"		P3	had
	"	244-PP-12	"		"		P3	had
	"	SEPARATOR LUBE OIL	"		"		P3	had
	"	244-PP-13 Pump	"		"		P3	had
	"	SEPARATOR Sludge	GEAR OIL BOX		"		P3	had
	"	244-PP-14 Pump	"		"		P3	had
	"	ENGINE HOT COOLING	"		"		P3	had
	"	244-PP-15 WATER PUMP	"		"		P3	had
	"	DIESEL COOLING WATER	"		"		P3	had
	"	244-PP-17 Pump	"		"		P3	had
	"	244-PP-18	"		"		P3	had

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See sheet D.

Apr 12/03 to May 12/03

SNC-LAVALIN
Engineers & Constructors

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see sheet D.
Apr 12/03 to May 12/03







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