

# RECEIVED

By Richard Dwyer at 5:18 pm, Mar 31, 2011

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## Mary River Project Projected A&R Fuel Inventory & Consumption Summary

(All quantities in liters)

		Bulk Fuel						Barreled Fuel			Purchased Fuel For Execution of A&R Plan		2011 Basis for Project
		P50		P50 Total	Jet A		Bulk Jet A Total	Jet A		Jet A Total	P50	Jet A	
		MI	MR		MI	MR		MI	MR				
		A&R Plan Fuel Projections											
2011	Baffinland January 31, 2011 Inventory			1,929,424			961,136	0	0	289,050			
Oct 10,2011	Projected Site Abandonment Inventory			1,929,424			961,136	0	0	289,050			
Year 1	A & R Plan Budget Consumption Before Sealift										2,850		Volume from Year 1 worksheet
Year 2	A & R Plan Budget Consumption Before Sealift										226,657		Volume from Year 2 worksheet
Year 2	A & R Plan Budget Consumption Before Sealift										57,567	4500	Volume from Year 2 worksheet
Year 3	A & R Plan Budget Consumption Before Sealift										535,003	52,560	Volume from Year 3 worksheet
Year 4	A & R Plan Budget Consumption Before Sealift										231556		Volume from Year 4 worksheet
Year 5	A & R Plan Budget Consumption Before Sealift										45,858		Volume from Year 5 worksheet
Year 6	A & R Plan Budget Consumption Before Sealift										45,858		Volume from Year 6 worksheet
SubTotal	Pre-Sealift Budget										229,507		1120
SubTotal	Sealift Budget										915,842	57,060	
Total	Total liters fuel										1,145,349	57,060	
Total	Total equivalent Sealift barrels										4,468	278	
Total	Total equivalent barrels										5,587	278	
Cost of Barreled Fuel											1.0017	1.2730	\$/l based on quote - See electronic file 2011A&R Plan Estimating Docs\Camp Ops\2011 barreled fuel quotation
Cost of Shipping - Vender to Valleyfield											0.0187	0.0187	\$/liter based on quote - See electronic file 2011A&R Plan Estimating Docs\Camp Ops\2011 barreled fuel quotation
Total Cost of Fuel (fuel +shipping)											\$ 1,168,714	\$ 73,704	
Total Barrel deposit											\$ 279,353	\$ 13,917	Barrel deposit = \$50 each based on quote- See electronic file 2011A&R Plan Estimating Docs\Camp Ops\2011 barreled fuel quotation
Total Cash Cost of Fuel + Barrells											\$ 1,448,068	\$ 87,623	\$ 1,535,691

**A&R Plan Year 1 Projected Fuel Consumption.**

	# Units	Burn Rate	Burn Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31		
Sky van hours/day				2	2	4	4	4	4	5.6	5.6	5.6	2.5				
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7		

## P50 Requirements

### Milne Inlet

No. of Weatherhaven Tents

Fuel burn in Weatherhaven tents	50 l/day	0
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100 kw gen set	150 l/day	0
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## Mary River

No. of Weatherhaven Tents

Fuel burn in Weatherhaven tents	50 l/day	1000	1000
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100 man camp gen set	2400 l/day	0
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100 kw gen set	150 l/day	750	750
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500 kw gen set	900 l/day	0
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Exploration Drill (3)	450 l/day	0
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Incinerator	200 l/day	0
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Herman Nelson	200 l/day	0
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Utility Vehicles	20 l/day	100	100
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Remote gensets	200 l/day	0
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## Steensby

No. of Weatherhaven Tents

Fuel burn in Weatherhaven tents	50 l/day	0
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Geotech Drill (3)	300 l/day	0
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50 kw genset	100 l/day	0
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Total Equivalent Barrels	0	0	0	0	0	0	0	0
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## Rail Camp

No. of Weatherhaven Tents

Fuel burn in Weatherhaven tents	50 l/day	0
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Geotech Drill (2)	300 l/day	0
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50 kw genset	100 l/day	0
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Total Equivalent Barrels	0	0	0	0	0	0	0	0
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### Alternate Quantitative Assumptions

200 l per day for miscellaneous mobile

equipment use for access purposes at

Equipment not for student purposes at Mary River	1000	1000
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Total P50 Requirements from MR Project	2858	0	0	2850
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## Jet A Requirements

### Charter Aircraft - Iqaluit to Mary River

Project	321 l/hr	0
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B2 Helicopter	180 l/hr	0
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[illegible]

A&R Plan Year 2 Projected Fuel Consumption.

#	Burn	Burn		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions
Units	Rate	Unit															
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31		
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5					
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7		

P50 Requirements

										Assume Complete demobilization in August by Nuna.	
Onsite Heavy equipment Contractor										Assume the same level of activity to remobilize 3rd party contractor in Sept.	
3rd Party contractor mobilization										31257	
Nuna contractor demobilization										16718	
Milne Inlet										Based on "2011 A&R plan forecast fuel requirements	
No. of Weatherhaven Tents										5	
Fuel burn in Norseman tents										5	
100 kw gen set										3	
										3	
										3	
										4650	
										4500	
										9150	
										4650	
										4500	
										9150	
Mary River											
No. of Weatherhaven Tents										5	
Fuel burn in Weatherhaven tents										5	
100 man camp gen set										5	
100 kw gen set										5	
500 kw gen set										5	
Exploration Drill (3)										5	
Incinerator										5	
Herman Nelson										7	
Utility Vehicles										7	
Remote gensets										7	
										7750	
										10850	
										10500	
										29100	
										0	
										0	
										4650	
										4650	
										4500	
										13800	
										0	
										0	
										800	
										800	
										800	
										2400	
										0	
										0	
										600	
										1500	
										1500	
										3600	
										0	
Steensby											
No. of Weatherhaven Tents										0	
Fuel burn in Weatherhaven tents										0	
Geotech Drill (3)										0	
50 kw genset										0	
Total Equivalent Barrels										0	
										0	
Rail Camp											
No. of Weatherhaven Tents										0	
Fuel burn in Weatherhaven tents										0	
Geotech Drill (2)										0	
50 kw genset										0	
Total Equivalent Barrels										0	

Alternate Qauntitative Assumptions

																	Assume average acutaly fuel consumption for 2009 & 2010 freshet periods (May-June). Estimate includes fuel use for 100 man weatherhaven camp which will ibe used initially until kitchen established for four person tents to reduce fuel consumption by the end of June. No other external fuel available at time of freshet.
Freshet equipment, camp and support services operations																	169049 Assume fuel will be flown in.

Total P50 Requirements from MR																	
Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	284224

Jet A Requirements

B2 Helicopter	180 l/hr																0 4500 No helicopter work scheduled in Year 2
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Total Jet A Requirements from MR																	
Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4500

Quantity of diesel fuel required to be purchased and transported to site by Hurcules Aircraft (May-Aug)	226657 liters
Quantity of diesel fuel required to be purchased and transported to site by sealift	57567 liters
Total diesel fuel required to be purchased =	284224 liters
Total Jet A fuel required to be purchased =	4500

### A&R Plan Year 3 Projected Fuel Consumption.

#	Burn	Burn	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions
Units	Rate	Unit														
Days in Month			31	28	31	30	31	30	31	31	30		31	30	31	
Sky van hours/day			2	2	4	4	4	5.6	5.6	5.6	2.5					
Dornier Summer hours/day			7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7		7	
<b>P50 Requirements</b>																
<b>Onsite Heavy equipment Contractor heavy equipment</b>																
Kenworth	25	l/hr														Based on "2011 A&R plan forecast fuel requirements and assumptions"
Cat 980 Loader	27	l/hr														331427 Total number of haul trips to Milne Inlet = 773 (3), crusher (14), containers (20), Other Mobile equipment (10) , = 47 trips @2 tripsday / 3 haul truck = 8 days of
D7 Dozer	28	l/hr														0 hauling with 3 vehicles
D8 Dozer	36	l/hr														0 1 week of support
14G grader	31	l/hr														0 2 days of support
16G grader	31	l/hr														0 4 days support for demob of trailer camp at Miiln
Cat 345 Excavator	46	l/hr														0
966 Loader	27	l/hr														0 2 days of support
Light vehicle support	10	l/hr														0
																0 3 vehicles for 2 weeks operating 25% utilization
																Estimated trips to transfer bulk fuel to Milne Inlet =
Fuel Truck	25	l/hr														0 988,000 l / 50,000 liters / trip/ 2 trips /day = 10 days
Water Truck	25	l/hr														0
277 MT Loader	7	l/hr														0 7 days of support
Tractor and lowboy	25	l/hr														0
<b>Milne Inlet</b>																
No. of Weatherhaven Tents								3	3	3	3	3				
Fuel burn in Norseman tents	50	l/day						4500	4650	4650	4500					18300
100 kw gen set	150	l/day						4500	4650	4650	4500					18300
<b>Mary River</b>																
No. of Weatherhaven Tents			5	5	5	5	8	8	8	8	8					
Fuel burn in Weatherhaven tents	50	l/day					12400	12000	12400	12400	12000					61200
100 man camp gen set	2400	l/day							0	0						0
100 kw gen set	150	l/day					4650	4500	4650	4650	4500					22950
500 kw gen set	900	l/day														0
Exploration Drill (3)	450	l/day														0
Incinerator	200	l/day					800	800	800	800	800					4000
Herman Nelson	200	l/day							0	0						0
Utility Vehicles	20	l/day					1500	1500	1500	1500	1500					7500
Remote gensets	400	l/day														0
<b>Steensby</b>																
No. of Norseman Tents			0	0	0	0	0	0	3							
Fuel burn in Weatherhaven tents	50	l/day	0	0	0	0			2100							2100 Assume two weeks of fuel
Geotech Drill (3)	300	l/day														0
50 kw genset	100	l/day							1400							1400 Assume two weeks of fuel
Total Equivalent Barrels			0	0	0	0	0	0	17.5	0						
<b>Rail Camp</b>																
No. of Norseman Tents			0	0	0	0	0	0	3							

A&R Plan Year 3 Projected Fuel Consumption.

	#	Burn	Burn																	
	Units	Rate	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions			
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31	31				
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5								
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7					
Fuel burn in Weatherhaven tents		50 l/day		0	0	0	0			2100						2100	Assume two weeks of fuel			
Geotech Drill (2)		300 l/day														0				
50 kw genset		100 l/day								1400						1400	Assume two weeks of fuel			
Total Equivalent Barrels				0	0	0	0	0	0	17.5	0									

Alternate Qauntitative Assumptions

Freshet equipment, camp and support services operations	30,939	33,387	Assume average acutaly fuel consumption for 2009 & 2010 freshet periods (May-June) less the operation of the 100 man camp 500 kw genset as it is no longer in use. Capepillar projected fuel use = 102/hour at 375 kW production. Camp heating and power requirements estimated in separate tasks.																
			64326																

Total P50 Requirements from MR Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	535003
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Jet A Requirements

B2 Helicopter	180 l/hr	52560	Total estimated helicopter hour requirement for A&R estimated to be 292 (from A&R Plan helicopter hour summary)																
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Total Jet A Requirements from MR Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52560
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Quantity of diesel fuel required to be purchased and transported to site by sealift	0 liters
Total diesel fuel required to be purchased =	535003 liters
Total Jef A fuel required to be purchase and transported by sealift	52560 liters

**A&R Plan Year 4 Projected Fuel Consumption.**

	# Units	Burn Rate	Burn Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31		
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5					
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7		

## P50 Requirements

**Onsite Heavy equipment Contractor  
heavy equipment**

Based on "2011 A&R plan forecast fuel requirements  
121330 and assumptions"

## Milne Inlet

No. of Weatherhaven Tents

Fuel burn in Norseman tents	50 l/day	4500	4650	4650	4650	4500	22950
100 kw gen set	150 l/day	4500	4650	4650	4650	4500	22950

## Mary River

No. of Weatherhaven Tents

Fuel burn in Weatherhaven tents	50 l/day	0
100 man camp gen set	2400 l/day	0
100 kw gen set	150 l/day	0
500 kw gen set	900 l/day	0
Exploration Drill (3)	450 l/day	0
Incinerator	200 l/day	0
Herman Nelson	200 l/day	0
Utility Vehicles	20 l/day	0
Remote gensets	400 l/day	0

## Steensby

No. of Norseman Tents

Fuel burn in Weatherhaven tents	50 l/day	0	0	0	0	0 Assume two weeks of fuel
Geotech Drill (3)	300 l/day					0
50 kw genset	100 l/day					0 Assume two weeks of fuel

Total Equivalent Barrels

## Rail Camp

No. of Norseman Tents

Fuel burn in Weatherhaven tents	50 l/day	0	0	0	0	0 Assume two weeks of fuel
Geotech Drill (2)	300 l/day					0
50 kw genset	100 l/day					0 Assume two weeks of fuel

Total Equivalent Barrels

### Alternate Quantitative Assumptions

	30,939	33,387
Freshet equipment, camp and support services operations		

Assume average acutaly fuel consumption for 2009 & 2010 freshet periods (May-June) less the operation of the 100 man camp 500 kw genset as it is no longer in use. Capepillar projected fuel use = 1021 hour at 375 kW production. Camp heating and power requirements estimated in separate tasks.

[illegible]

A&R Plan Year 4 Projected Fuel Consumption.

	#	Burn	Burn																	
	Units	Rate	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total				Assumptions
Days in Month					31	28	31	30	31	30	31	31	30	31	30	31				
Sky van hours/day					2	2	4	4	4	5.6	5.6	5.6	2.5							
Dornier Summer hours/day					7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7				

Jet A Requirements

B2 Helicopter	180 l/hr	0	No Jet A required in Year 4
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Total Jet A Requirements from MR Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Quntity of diesel fuel required to be purchased and transported to site by sealift	231556 liters
Total diesel fuel required to be purchased =	231556 liters
Total Jef A fuel required to be purchase and transported by sealift	0 liters

**A&R Plan Year 5 Projected Fuel Consumption.**

	# Units	Burn Rate	Burn Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31		
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5					
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7		

## P50 Requirements

**Onsite Heavy equipment Contractor heavy equipment**

Based on "2011 A&R plan forecast fuel requirements  
22608 and assumptions"

## Milne Inlet

No. of Weatherhaven Tents

## Fuel burn in Norseman tents

100 kw gen set

## Mary River

No. of Weatherhaven Tents

## Fuel burn in Weatherhaven tents

100 man camp gen set

100 kw gen set

500 kw gen set

### Exploration Drill (3)

Incinerator

Herman Nelson

### Utility Vehicles

Remote gensets

## Steensby

No. of Norseman Tents

### Fuel burn in Weatherhaven tents

Geotech Drill (3)

50 kw genset

**Total Equivalent Barrels**

## Rail Camp

No. of Norseman Tents

### Fuel burn in Weatherhaven tents

### Geotech Drill (2)

50 kw genset

**Total Equivalent Barrels**

### Alternate Quantitative Assumptions

Freshet equipment, camp and support services operations

Assume average acutaly fuel consumption for 2009 & 2010 freshet periods (May-June) less the operation of the 100 man camp 500 kw genset as it is no longer in use. Caapepillar projected fuel use = 102/ hour at 375 kW production. Camp heating and power requirements estimated in separate tasks.

[illegible]



A&R Plan Year 5 Projected Fuel Consumption.

	#	Burn	Burn																		
	Units	Rate	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total					Assumptions
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31						
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5									
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7						

Jet A Requirements

B2 Helicopter	180 l/hr	0	No Jet A required in Year 4
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Total Jet A Requirements from MR Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Quntity of diesel fuel required to be purchased and transported to site by sealift	45858 liters
Total diesel fuel required to be purchased =	45858 liters
Total Jef A fuel required to be purchase and transported by sealift	0 liters

**A&R Plan Year 6 Projected Fuel Consumption.**

	# Units	Burn Rate	Burn Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31		
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5					
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7		

## P50 Requirements

**Onsite Heavy equipment Contractor  
heavy equipment**

Based on "2011 A&R plan forecast fuel requirements  
22608 and assumptions"

### Milne Inlet

No. of Weatherhaven Tents

Fuel burn in Norseman tents	50 l/day	2325	4650	4650	11625
100 kw gen set	150 l/day	2325	4650	4650	11625

## Mary River

No. of Weatherhaven Tents

Fuel burn in Weatherhaven tents	50 l/day	0
100 man camp gen set	2400 l/day	0
100 kw gen set	150 l/day	0
500 kw gen set	900 l/day	0
Exploration Drill (3)	450 l/day	0
Incinerator	200 l/day	0
Herman Nelson	200 l/day	0
Utility Vehicles	20 l/day	0
Remote gensets	400 l/day	0

## Steensby

No. of Norseman Tents

Fuel burn in Weatherhaven tents	50 l/day	0	0	0	0	0 Assume two weeks of fuel
Geotech Drill (3)	300 l/day					0
50 kw genset	100 l/day					0 Assume two weeks of fuel

Total Equivalent Barrels	0	0	0	0	0	0	0	0
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## Rail Camp

No. of Norseman Tents

Fuel burn in Weatherhaven tents	50 l/day	0	0	0	0	0 Assume two weeks of fuel
Geotech Drill (2)	300 l/day					0
50 kw genset	100 l/day					0 Assume two weeks of fuel

Total Equivalent Barrels	0	0	0	0	0	0	0	0
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### Alternate Quantitative Assumptions

Freshet equipment, camp and support services operations

Assume average acutaly fuel consumption for 2009 & 2010 freshet periods (May-June) less the operation of the 100 man camp 500 kw gensest as it is no longer in use. Capepillar projected fuel use = 102/ hour at 375 kW production. Camp heating and power requirements

[illegible]

A&R Plan Year 6 Projected Fuel Consumption.

	#	Burn	Burn																	
	Units	Rate	Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Total	Assumptions			
Days in Month				31	28	31	30	31	30	31	31	30	31	30	31					
Sky van hours/day				2	2	4	4	4	5.6	5.6	5.6	2.5								
Dornier Summer hours/day				7	7	7	9.5	9.5	9.5	9.5	9.5	9.5	9.6	7	7					

Jet A Requirements

B2 Helicopter

180 l/hr

No Jet A required in Year 4

Total Jet A Requirements from MR																			
Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Quantity of diesel fuel required to be purchased and transported to site by sealift

45858 liters

Total diesel fuel required to be purchased =

45858 liters

Total Jef A fuel required to be purchase and transported by sealift

0 liters