## Table B-1

# Cost Estimate - Bulk Plants - Distillate Storage Only

#### Case A.

Intermediate Bulk Plant drop-off storage for subsequent delivery to local area home heat		Thruput (				Thrupu		Thruput >5,000,000 to 7,500,000			
customers. Construction on Island portion of		3,500,0	00	>3	3,5	00,000 to	5,000,000				
province.		Litres per	year			Litres per	er year Litre			es per year	
Item Description	Qty	Unit Price	Amount	Q	ty	Unit Price	Amount	Qty	Unit Price	Amount	
Land Purchase - 1 Acre	1	\$30,000	\$30,000	1		\$30,000	\$30,000	1	\$30,000	\$30,000	
Site preparation	1	\$15,000	\$15,000	1		\$15,000	\$15,000	1	\$15,000	\$15,000	
Concrete Load Pad with drain to Oil/Water Separator	1	\$6,000	\$6,000	1		\$6,000	\$6,000	1	\$6,000	\$6,000	
Chain Link Fencing c/w with 2- double gates installed (Lineal Feet)	800	\$15	\$12,000	80	00	\$15	\$12,000	800	\$15	\$12,000	
10000 imperial gallon (45,461 litre) capacity GEEP* Units for Furnace Oil	1	\$32,800	\$32,800	2	2	\$32,800	\$65,600	3	\$32,800	\$98,400	
5000 imperial gallon (22,730 litre) capacity GEEP Units for Furnace Oil	1	\$15,600	\$15,600	C	)	\$15,600	\$15,600	0	\$15,600	\$15,600	
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove Oil	0	\$32,800	\$0	C	)	\$32,800	\$0	1	\$32,800	\$32,800	
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove Oil	1	\$15,600		_1	-	\$15,600		0	\$15,600		
Load - Transport and Place GEEP Units on Site	3	\$1,000	\$3,000	3	3	\$1,000	\$3,000	4	\$1,000	\$4,000	
0.5110.0 (17.10		20.000	<b>07</b> 000	F		<b>**</b> ***	<b>#7</b> 000	_	00.000	<b>07</b> 000	
2 - 5 HP Centrifugal Pumps c/w base	2	\$3,800 \$6,200	\$7,600	2	_	\$3,800 \$6,200	\$7,600	2	\$3,800		
3" Meters with air eliminator and strainers 3" Loading Arms complete	2	\$4,300	\$12,400 \$8,600	2	-	\$4,300	\$12,400 \$8,600	2	\$6,200 \$4,300		
3" Flanged steel Gate Valves	6	\$260	\$1,560	6	-	\$260	\$1,560	8	\$4,300 \$260		
3" Flanged steel Clack Valves	2	\$260	\$520	2	_	\$260	\$520	3	\$260	. ,	
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200	1	-	\$7,200	\$7,200	1	\$7,200		
Structural Steel Loading System c/w, loading arm supports, ramp, catwalk, stairs, railings etc. installed.	1	\$18,000	\$18,000	1		\$18,000	\$18,000	1	\$18,000	\$18,000	
Mechanical hook-up c/w all associated piping and other materials and Labour	1	\$25,000	\$25,000	1		\$25,000	\$25,000	1	\$25,000	\$25,000	
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$18,000	\$18,000	_1		\$18,000	\$18,000	1	\$18,000	\$18,000	
Oil spill response drum	1	\$650	\$650	1		\$650	\$650	1	\$650	\$650	
Over fill Alarm Systems	3	\$1,000		3	-	\$1,000	\$3,000	3	\$1,000		
Emergency Eye wash Kit	1	\$100	. ,	1		\$100	\$100	1	\$100		
20 lb ABC Fire Extinguishers	2	\$500		2	2	\$500		2	\$500		
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric baseboard heat and lockable		4							4		
steel door.	1	\$5,200		1		\$5,200		1	\$5,200		
Total Cost - Identified Items			\$238,830				\$271,630			\$339,010	
Provision for contingencies		15%	\$36,170			15%	\$40,370		15%	\$50,990	
Total Bulk Plant Cost Estimate			<u>\$275,000</u>				<b>\$312,000</b>			\$390,000	

<sup>\*</sup>GEEP Units are portable self-dyked storage tanks complete with vents, piping connections and other appurtenances.

#### Table B-2

## <u>Cost Estimate - Bulk Plants - Gasoline and Distillate Storage</u> (Small nominal sized Plant only)

Case B. Intermediate Bulk Plant drop-off storage for subsequent delivery to local area home heat customers and Gasoline& Diesel storage for local Tank Wagon deliveries to small retail outlets. Construction on Island portion of province.

Qty	Item Description	Unit Price	Amount
1	Land Purchase - 1 Acre	\$30,000	\$30,000
1	Site preparation	\$15,000	\$15,000
1	Concrete Load Pad with drain to Oil/Water Separator	\$6,000	\$6,000
800	Feet - Chain Link Fencing c/w with 2- double gates installed	\$15	\$12,000
2	10000 Imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	\$32,800	\$65,600
1	10000 Imperial gallon (45,461 litre) capacity GEEP Units for Furnace Oil	\$32,800	\$32,800
1	5000 Imperial gallon (22,730 litre) capacity GEEP Units for Furnace Oil/ Diesel	\$15,600	\$15,600
1	5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove Oil	\$15,600	\$15,600
5	Load - Transport and Place GEEP Units on Site	\$1,000	\$5,000
3	2 - 5 HP Centrifugal Pumps c/w base	\$3,800	\$11,400
3	3" Meters with air eliminator and strainers	\$6,200	\$18,600
3	3" Loading Arms complete	\$4,300	\$12,900
10	3" Flanged steel Gate Valves	\$260	\$2,600
5	3" Flanged steel Check Valves	\$260	\$1,300
1	Oil Water Separator (5000 Litre)	\$7,200	\$7,200
	Structural Steel Loading System c/w, loading arm supports, ramp, catwalk,		
1	stairs, railings etc. all installed	\$26,000	\$26,000
1	Mechanical hook-up c/w all associated piping and other materials and Labour	\$32,000	\$32,000
1	Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	\$22,000	\$22,000
2	Oil spill response drum	\$650	\$1,300
5	Over fill Alarm Systems	\$1,000	\$5,000
1	Emergency Eye wash Kit	\$100	\$100
3	20 lb ABC Fire Extinguishers	\$500	\$1,500
	C ft by 0 ft Hillity Chad also concrete floor inculated walls within a classic		
	6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric	φE 000	<b>ቀ</b> ፫ ጋጋጋ
1	baseboard heat and steel door.	\$5,200	\$5,200

Total Cost - Identified Items

\$344,700

Provision for contingencies

15% \$51,705

Total Bulk Plant Cost Estimate

\$396,000

#### Table B-3

### Cost Estimate - Bulk Plants - Labrador South Coast

#### Case C.

## **Bulk Plant - South Labrador Coast supplied via Tank Wagon**

(Supply from Labrador Straits Storage)

Stove oil storage for subsequent delivery to local area home heat customers. Storage for gasoline and diesel for local delivery via Tank Wagon to retail outlets. Includes provision for one onsite dispensing pump.

Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres) Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)

Supply via Tank Wagon from L'Anse au Loup
Charlottetown
864,800 Gasoline
187,375 Stove Oil
Volumes are Approximate
Deliveries via Tank-Wagon

	Deliveries via	rank-wagon	
Item Description	Qty	Unit Price	Amount
Land Purchase - 1 Acre	1	\$20,000	\$20,000
Site preparation	1	\$18,000	\$18,000
Concrete Load Pad with drain to Oil/Water Separator	1	\$7,200	\$7,200
Feet - Chain Link Fencing c/w with 2- double gates installed	800	\$18	\$14,400
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	6	\$53,000	\$318,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	0	\$0	\$0
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove Oil / Diesel	2	\$53,000	\$106,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove Oil/ Diesel	0	\$0	\$0
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove Oil /Diesel	0	\$0	\$0
Load - Transport and Place GEEP Units on Site	8	\$2,000	\$16,000
2 - 5 HP Centrifugal Pumps c/w base	2	\$3,800	\$7,600
3" Meters with air eliminator and strainers	3	\$6,200	\$18,600
Retail Dispensing Pump with hose reel and auto-shut-off nozzles	1	\$7,500	\$7,500
3" Loading Arms complete	2	\$4,300	\$8,600
3" Flanged steel Gate Valves	16	\$260	\$4,160
3" Flanged steel Check Valves	8	\$260	\$2,080
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200
Transport materials other than GEEP Units to site	1	\$1,000	\$1,000
Structural Steel Loading System c/w, loading arm supports, ramp, catwalk, stairs,			
railings etc. (installed)	1	\$30,000	\$30,000
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$38,400	\$38,400
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$26,400	\$26,400
Oil spill response drum	2	\$780	\$1,560
Over fill Alarm Systems	8	\$1,200	\$9,600
Emergency Eye wash Kit	1	\$120	\$120
20 lb ABC Fire Extinguishers	3	\$600	\$1,800
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric			
baseboard heat and steel door.	1	\$6,240	\$6,240

Total Cost - Identified Items \$670,460

Provision for contingencies 15% \$100,540

Total Cost Estimate \$771,000

Table B-4

# <u>Cost Estimate - Marine Storage Depots - Labrador South Coast</u>

# Case D. Marine Depots - Labrador South Coast supplied via Coastal Tanker

Stove oil storage for subsequent delivery to local area home heat customers.  Storage for gasoline and diesel for local delivery via Tank Wagon to retail	Supply via Coastal Marine Tanker		
outlets. Includes provision for one onsite dispensing pump.		Combined C	artwright &
		Port Hope	Simpson
Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres)		1,193,000	Gasoline
Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)		256,000	Stove Oil
,		Approximate	
		Deliveries via	
Item Description	Qty	Unit Price	Amount
Land Purchase - 1 Acre	1	\$20,000	\$20,000
Site preparation	1	\$18,000	\$18,000
Concrete Load Pad with drain to Oil/Water Separator	1	\$7,200	\$7,200
Feet - Chain Link Fencing c/w with 2- double gates installed	800	\$18	\$14,400
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	13	\$53,000	\$689,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	0	\$32,800	\$0
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove / Diesel	3	\$53,000	\$159,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove / Diesel	0	\$32,800	\$0
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove / Diesel	0	\$15,600	\$0
Load - Transport and Place GEEP Units on Site	16	\$2,000	\$32,000
2 - 5 HP Centrifugal Pumps c/w base	2	\$3,800	\$7,600
3" Meters with air eliminator and strainers	3	\$6,200	\$18,600
Retail Dispensing Pumps with hose reel and auto-shut-off nozzles	1	\$7,500	\$7,500
3" Loading Arms complete	2	\$4,300	\$8,600
3" Flanged steel Gate Valves	32	\$260	\$8,320
3" Flanged steel Check Valves	16	\$260	\$4,160
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200
Transport materials other than GEEP Units to site	1	\$1,000	\$1,000
Structural Steel Loading System c/w, loading arm supports, ramp, catwalk,			
stairs, railings etc. (installed)	1	\$30,000	\$30,000
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$38,400	\$38,400
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$26,400	\$26,400
Oil spill response drum	2	\$780	\$1,560
Over fill Alarm Systems	16	\$1,200	\$19,200
Emergency Eye wash Kit	1	\$120	\$120
20 lb ABC Fire Extinguishers	3	\$600	\$1,800
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric			
baseboard heat and steel door.	1	\$6,240	\$6,240
Total Cost - Identified Items			\$1,126,300

15% Provision for contingencies \$168,700

**Total Cost Estimate** \$1,295,000

### Table B-5

# <u>Cost Estimate - Specific Marine Storage Depots - Labrador Coast</u>

### Case E.

## Marine Depots - Labrador Coast supplied via Coastal Tanker

Gasoline and Stove oil and Diesel storage for dispensing to customers at Depot into drums and / or other containers.

		Rig	olet
Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres)		210,508	Gasoline
Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)		83,047	Stove Oil
Item Description	Qty	Unit Price	Amount
Land Purchase - 1 Acre	1	\$20,000	\$20,000
Site preparation	1	\$22,500	\$22,500
Concrete Load Pad with drain to Oil/Water Separator	1	\$9,000	\$9,000
Feet - Chain Link Fencing c/w with 2- double gates installed	800	\$23	\$18,000
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	2	\$53,000	\$106,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	2	\$32,800	
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove / Diesel	0	\$0	\$0
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove / Diesel	2	\$32,800	
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove / Diesel	0	\$0	\$0
Load - Transport and Place GEEP Units on Site	6	\$2,500	\$15,000
2 - 5 HP Centrifugal product transfer pumps c/w base	2	\$3,800	\$7,600
3" Flanged steel Gate Valves	12	\$260	\$3,120
3" Flanged steel Check Valves	6	\$260	\$1,560
Retail Dispensing Pumps with hose reel and auto-shut-off nozzles	3	\$7,500	\$22,500
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200
Transport materials other than GEEP Units to site	1	\$1,250	\$1,250
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$48,000	\$48,000
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$33,000	\$33,000
Oil spill response drum	2	\$975	\$1,950
Over fill Alarm Systems	6	\$1,500	
Emergency Eye wash Kit	1	\$150	
20 lb ABC Fire Extinguishers	3	\$750	\$2,250
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric baseboard heat and steel door.	1	\$7,800	\$7,800
			. ,

Total Cost - Identified Items \$467,080

Provision for contingencies 15% \$69,920

Total Cost Estimate \$537,000

### Table B-6

# <u>Cost Estimate - Specific Marine Storage Depots - Labrador Coast</u>

### Case E.

## Marine Depots - Labrador Coast supplied via Coastal Tanker

Gasoline and Stove oil and Diesel storage for dispensing to customers at Depot into drums and / or other containers.

Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres)  Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)  Item Description  Land Purchase - 1 Acre	Qty 1 1 1 1 800	237,933 118,275 Unit Price \$20,000 \$22,500	\$20,000
Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)  Item Description  Land Purchase - 1 Acre	1 1 1	118,275 Unit Price \$20,000 \$22,500	Stove Oil Amount \$20,000
Item Description Land Purchase - 1 Acre	1 1 1	\$20,000 \$22,500	\$20,000
	1	\$22,500	
	1		
Site preparation			\$22,500
Concrete Load Pad with drain to Oil/Water Separator	800	\$9,000	\$9,000
Feet - Chain Link Fencing c/w with 2- double gates installed		\$23	\$18,000
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	3	\$53,000	\$159,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	1	\$32,800	
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove / Diesel	2	\$53,000	\$106,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove / Diesel	0	\$0	\$0
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove / Diesel	0	\$0	\$0
Load - Transport and Place GEEP Units on Site	6	\$2,500	\$15,000
2 - 5 HP Centrifugal product transfer pumps c/w base	2	\$3,800	_
3" Flanged steel Gate Valves	12	\$260	. ,
3" Flanged steel Check Valves	6	\$260	
Retail Dispensing Pumps with hose reel and auto-shut-off nozzles	3	\$7,500	
Oil Water Separator (5000 Litre)	1	\$7,200	
Transport materials other than GEEP Units to site	1	\$1,250	
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$48,000	
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$33,000	\$33,000
Oil spill response drum	2	\$975	
Over fill Alarm Systems	6	\$1,500	
Emergency Eye wash Kit	1	\$150	
20 lb ABC Fire Extinguishers	3	\$750	\$2,250
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric			
baseboard heat and steel door.	1	\$7,800	\$7,800
T + 10 + 11 + 17 + 11			

Total Cost - Identified Items \$527,680

Provision for contingencies 15% \$79,320

Total Cost Estimate \$607,000

Table B-7

# <u>Cost Estimate - Specific Marine Storage Depots - Labrador Coast</u>

### Case E.

## Marine Depots - Labrador Coast supplied via Coastal Tanker

Gasoline and Stove oil and Diesel storage for dispensing to customers at Depot into drums and / or other containers.

into drams and 7 or other containers.			
		Postville	
Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres)		179,759	Gasoline
Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)		69,825	Stove Oil
Item Description	Qty	Unit Price	Amount
Land Purchase - 1 Acre	1	\$20,000	\$20,000
Site preparation	1	\$22,500	\$22,500
Concrete Load Pad with drain to Oil/Water Separator	1	\$9,000	
Feet - Chain Link Fencing c/w with 2- double gates installed	800	\$23	\$18,000
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	2	\$53,000	\$106,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	1	\$32,800	\$32,800
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove / Diesel	1	\$53,000	\$53,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove / Diesel	0	\$0	
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove / Diesel	1	\$15,600	\$15,600
Load - Transport and Place GEEP Units on Site	5	\$2,500	\$12,500
2 - 5 HP Centrifugal product transfer pumps c/w base	2	\$3,800	\$7,600
3" Flanged steel Gate Valves	10	\$260	\$2,600
3" Flanged steel Check Valves	5	\$260	\$1,300
Retail Dispensing Pumps with hose reel and auto-shut-off nozzles	3	\$7,500	\$22,500
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200
Transport materials other than GEEP Units to site	1	\$1,250	
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$48,000	\$48,000
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$33,000	\$33,000
Oil spill response drum	2	\$975	\$1,950
Over fill Alarm Systems	5	\$1,500	\$7,500
Emergency Eye wash Kit	1	\$150	\$150
20 lb ABC Fire Extinguishers	3	\$750	\$2,250
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric			
baseboard heat and steel door.	1	\$7,800	\$7,800

Total Cost - Identified Items \$432,500

Provision for contingencies 15% \$64,500

Total Cost Estimate \$497,000

### Table B-8

# <u>Cost Estimate - Specific Marine Storage Depots - Labrador Coast</u>

### Case E.

## Marine Depots - Labrador Coast supplied via Coastal Tanker

Gasoline and Stove oil and Diesel storage for dispensing to customers at Depot into drums and / or other containers.

into drams and 7 of other containers.			
		Hopedale	
Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres)		250,000	Gasoline
Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)		161,154	Stove Oil
Item Description	Qty	Unit Price	Amount
Land Purchase - 1 Acre	1	\$20,000	\$20,000
Site preparation	1	\$30,000	\$30,000
Concrete Load Pad with drain to Oil/Water Separator	1	\$12,000	\$12,000
Feet - Chain Link Fencing c/w with 2- double gates installed	800	\$30	\$24,000
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	4	\$53,000	\$212,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	0	\$0	\$0
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove / Diesel	2	\$53,000	\$106,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove / Diesel	1	\$32,800	\$32,800
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove / Diesel	0	\$0	\$0
Load - Transport and Place GEEP Units on Site	7	\$2,500	\$17,500
2 - 5 HP Centrifugal product transfer pumps c/w base	2	\$3,800	\$7,600
3" Flanged steel Gate Valves	14	\$260	\$3,640
3" Flanged steel Check Valves	7	\$260	\$1,820
Retail Dispensing Pumps with hose reel and auto-shut-off nozzles	3	\$7,500	\$22,500
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200
Transport materials other than GEEP Units to site	1	\$1,250	
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$48,000	\$48,000
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$33,000	\$33,000
Oil spill response drum	2	\$975	\$1,950
Over fill Alarm Systems	7	\$1,500	\$10,500
Emergency Eye wash Kit	1	\$150	\$150
20 lb ABC Fire Extinguishers	3	\$750	\$2,250
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric			
baseboard heat and steel door.	1	\$7,800	\$7,800
			<b>***</b>

Total Cost - Identified Items

\$601,960

Provision for contingencies

15% \$90,040

\$692,000

**Total Cost Estimate** 

Table B-9

# <u>Cost Estimate - Specific Marine Storage Depots - Labrador Coast</u>

Case E.

## Marine Depots - Labrador Coast supplied via Coastal Tanker

Gasoline and Stove oil and Diesel storage for dispensing to customers at Depot into drums and / or other containers.

into drame and 7 of other containers.	ı		
		Nain	
Estimated Annual Consumer Gasoline Consumer Consumption/ demand (Litres)		436,603	Gasoline
Estimated Annual Home Heat Product Consumer Consumption/ demand (Litres)		330,600	Stove Oil
Item Description	Qty	Unit Price	Amount
Land Purchase - 1 Acre	1	\$20,000	\$20,000
Site preparation	1	\$30,000	\$30,000
Concrete Load Pad with drain to Oil/Water Separator	1	\$12,000	\$12,000
Feet - Chain Link Fencing c/w with 2- double gates installed	800	\$30	\$24,000
15000 imperial gallon (68,190 litre) capacity GEEP Units for Gasoline	6	\$53,000	\$318,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Gasoline	1	\$32,800	\$32,800
15000 imperial gallon (68,190 litre) capacity GEEP Units for Stove / Diesel	5	\$53,000	\$265,000
10000 imperial gallon (45,461 litre) capacity GEEP Units for Stove / Diesel	0	\$0	\$0
5000 Imperial gallon (22,730 litre) capacity GEEP Unit for Stove / Diesel	0	\$0	\$0
Load - Transport and Place GEEP Units on Site	12	\$2,500	\$30,000
2 - 5 HP Centrifugal product transfer pumps c/w base	2	\$3,800	\$7,600
3" Flanged steel Gate Valves	24	\$260	\$6,240
3" Flanged steel Check Valves	12	\$260	\$3,120
Retail Dispensing Pumps with hose reel and auto-shut-off nozzles	3	\$7,500	\$22,500
Oil Water Separator (5000 Litre)	1	\$7,200	\$7,200
Transport materials other than GEEP Units to site	1	\$1,250	\$1,250
Mechanical Hook-up c/w all associated piping and other materials and Labour	1	\$48,000	\$48,000
Electrical hook-up c/w all necessary wiring, circuit breakers, poles etc.	1	\$33,000	\$33,000
Oil spill response drum	2	\$975	\$1,950
Over fill Alarm Systems	12	\$1,500	\$18,000
Emergency Eye wash Kit	1	\$150	\$150
20 lb ABC Fire Extinguishers	3	\$750	\$2,250
6 ft by 8 ft Utility Shed c/w concrete floor, insulated walls, wiring, electric			
baseboard heat and steel door.	1	\$7,800	\$7,800
Total Cost Identified Items			<b>#900 960</b>

Total Cost - Identified Items \$890,860

Provision for contingencies 15% \$133,140

Total Cost Estimate \$1,024,000

Table B-10

90,922

90,922

90,922

90,922

90,922

136,383

## Estimated Annual Operating Cost of Typical 'Drop-Off' Bulk Plant for Distillates per Study Model

90,922

Capital Cost Estimate <sup>1</sup>	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$312,000
Straight Line Depreciation - 20 Years	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$15,600
Annual Thruput (Litres)	1,000,000	1,500,000	2,000,000	2,500,000	3,000,000	3,500,000	4,000,000
Estimated Annual Costs							
Part-time Salary for Plant Operation <sup>2</sup>	\$10,000	\$10,500	\$11,000	\$11,500	\$12,000	\$12,500	\$13,000
Electrical Power	\$1,000	\$1,050	\$1,100	\$1,150	\$1,200	\$1,250	\$1,300
Maintenance	\$1,500	\$2,250	\$3,000	\$3,750	\$4,500	\$5,250	\$6,000
Insurance <sup>3</sup>	\$10,489	\$10,489	\$10,489	\$10,489	\$10,489	\$10,489	\$10,730
Municipal Taxes <sup>4</sup>	\$2,750	\$2,750	\$2,750	\$2,750	\$2,750	\$2,750	\$3,120
Stock Losses at 0.25% of thruput @ 50 cpl	\$1,250	\$1,875	\$2,500	\$3,125	\$3,750	\$4,375	\$5,000
Sub-Total	\$26,989	\$28,914	\$30,839	\$32,764	\$34,689	\$36,614	\$39,150
Direct Operating Costs CPL	<u>2.70</u>	<u>1.93</u>	<u>1.54</u>	<u>1.31</u>	<u>1.16</u>	<u>1.05</u>	<u>0.98</u>
(All Stock valued at 50 cpl)							
Add Depreciation	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$13,750	\$15,600
Total Annual Cost	\$40,739	<u>\$42,664</u>	<u>\$44,589</u>	<u>\$46,514</u>	<u>\$48,439</u>	<u>\$50,364</u>	<u>\$54,750</u>
Operating Cost CPL	<u>4.07</u>	2.84	2.23	<u>1.86</u>	<u>1.61</u>	<u>1.44</u>	1.37
Nominal Storage Capacity (Litres)	136,383	136,383	181,844	181,844	181,844	181,844	181,844
Capital Cost Estimate <sup>1</sup>	\$312,000	\$312,000	\$390,000	\$390,000	\$390,000	\$390,000	\$390,000
Straight Line Depreciation - 20 Years	\$15,600	\$15,600	\$19,500	\$19,500	\$19,500	\$19,500	\$19,500
Annual Thruput (Litres)	4,500,000	5,000,000	5,500,000	6,000,000	6,500,000	7,000,000	7,500,000
Estimated Annual Costs							
Part-time Salary for Plant Operation <sup>2</sup>	\$13,500	\$14,000			\$15,500		
Electrical Power	\$1,350	\$1,400			\$1,550	\$1,600	
Maintenance	\$6,750	\$7,500			\$9,750	\$10,500	
Insurance <sup>3</sup>	\$10,730	\$10,730	\$11,177	\$11,177	\$11,177	\$11,177	\$11,177
Municipal Taxes <sup>4</sup>	\$3,120	\$3,120			\$3,900	\$3,900	\$3,900
Stock Losses at 0.25% of thruput @ 50 cpl	\$5,625	\$6,250			\$8,125	\$8,750	
Sub-Total	<u>\$41,075</u>	\$43,000		\$48,077	\$50,002	\$51,927	<u>\$53,852</u>
Direct Operating Costs CPL	<u>0.91</u>	<u>0.86</u>	<u>0.84</u>	<u>0.80</u>	<u>0.77</u>	<u>0.74</u>	<u>0.72</u>
(All Stock valued at 50 cpl)							
Add Depreciation	\$15,600	\$15,600	\$19,500	\$19,500	\$19,500	\$19,500	\$19,500
Total Annual Cost	<u>\$56,675</u>	\$58,600	<u>\$65,652</u>	<u>\$67,577</u>	\$69,502	<u>\$71,427</u>	<u>\$73,352</u>
Operating Cost CPL	<u>1.26</u>	<u>1.17</u>	<u>1.19</u>	<u>1.13</u>	<u>1.07</u>	<u>1.02</u>	<u>0.98</u>

#### Notes:

Nominal Storage Capacity (Litres)

<sup>&</sup>lt;sup>1</sup> Based on the use of self dyked GEEP Units - for Furnace Oil and one for Stove Oil with 2 pumps, meters, 2 loading arms, land, fencing, dykes, water separator and other required equipment for current standards. (Distillate storage only as required for thruput)

<sup>&</sup>lt;sup>2</sup> Balance of salary provided for by commercial volumes handled through bulk plant and/ or tank wagon

<sup>&</sup>lt;sup>3</sup> Insurance cost estimate would be \$0.50 per \$100 for physical property and inventory. First and Third party Liability premiums assuming the Plant meets all environmental and safety standards would be \$9000 + HST. (Inventory valued at 50 cpl and insured at 50% of storage capacity)

<sup>&</sup>lt;sup>4</sup> Municipal Taxes assumed to be 1% of capital value per annum (I.e. 10 mils)

Table B-11

## Estimated Annual Costs for Specific Bulk Plants and Marine Depots Labrador - Using Study Model

Nominal Storage Capacity (Litres)	545,520	409,140	136,380	1,159,230	954,660	204,570
Capital Cost Estimate <sup>1</sup>	\$771,000	\$771,000	\$771,000	\$1,295,000	\$1,295,000	\$1,295,000
Straight Line Depreciation - 20 Years	\$38,550	\$38,550	\$38,550	\$64,750	\$64,750	\$64,750
	(Storage for	50% of annเ	ıal Volume)		or 70% of annu	
Location	Charlott	tetown, La	brador	Port Hop	e Simpson,	Labrador
	All Product		Distillate	All Product	Gasoline	Distillate
Gasolines Thruput	864,800			1,193,325	1,193,325	
Distillates Thruput	187,375		187,375	255,713		255,713
Total Annual Thruput (Litres)	1,052,175	864,800	187,375	1,449,038	1,193,325	255,713
Estimated Annual Costs	Totals	Prorate o	n Thruput	Totals	Prorate o	n Thruput
Part-time Salary for Plant Operation <sup>2</sup>	\$11,000	\$9,041	\$1,959	\$11,000	\$9,059	\$1,941
Electrical Power <sup>5</sup>	\$1,905	\$1,566	\$339	\$1,945	\$1,602	\$343
Maintenance	\$1,578	\$1,297	\$281	\$2,174	\$1,790	\$384
Insurance <sup>3</sup>	\$13,537	\$11,126	\$2,411	\$13,537	\$11,148	\$2,389
Municipal Taxes <sup>4</sup>	\$7,710	\$6,337	\$1,373	\$7,710	\$6,349	\$1,361
Stock Losses for gasoline 1.5 % of thruput @ 50 cpl	\$6,486	\$6,486		\$8,950	\$8,950	
Stock Losses for distillate 0.75 % of thruput @ 50 cpl	\$703		\$703	\$959		\$959
Sub-Total	\$42,919	\$35,853	\$7,066	\$46,274	\$38,898	\$7,376
Direct Operating Costs CPL	4.08	<u>4.15</u>	<u>3.77</u>	<u>3.19</u>	<u>3.26</u>	<u>2.88</u>
Add Depresiation	¢20 550	¢24 695	\$6,865	<b>PG4 750</b>	<b>\$52.224</b>	¢11 126
Add Depreciation	\$38,550	\$31,685	φ0,000	\$64,750	\$53,324	\$11,426
Total Annual Cost	\$81,469	\$67,538	\$13,931	\$111,024	\$92,221	\$18,803
Annual Operating Cost CPL	<u>7.74</u>	<u>7.81</u>	<u>7.43</u>	<u>7.66</u>	<u>7.73</u>	<u>7.35</u>

Average annual cost for Gasoline 7.77 CPL
Average annual cost for Stove Oil Heating Fuel and Diesel Fuel 7.39 CPL

<sup>&</sup>lt;sup>1</sup> Storage based on tankage and equipment per Tables B-3 and B-4 of Appendix B. Labour for construction assumed at 120% of rates on Island of Newfoundland.

<sup>&</sup>lt;sup>2</sup> Balance of salary provided for by commercial volumes handled through bulk plant and/ or tank wagon deliveries.

<sup>&</sup>lt;sup>3</sup> Insurance cost estimated at \$0.50 per \$100 of physical property and inventory. First and Third party Liability assuming the plant meets all environmental and safety standards would be \$9000 + HST. Inventory valued at 50 cpl and insured at 50% of capacity.

<sup>&</sup>lt;sup>4</sup> Municipal Taxes assumed to be 1% of capital value per annum (I.e. 10 mils)

<sup>&</sup>lt;sup>5</sup> Electricity costs assumed to double that on Island portion of province.

Table B-12

## **Estimated Annual Costs for Specific Marine Depots Labrador Coast - Using Study Estimate Model**

	All Product	Gasoline	Distillate	All Product	Gasoline	Distillate
Nominal Storage Capacity (Litres)	318,224	90,922	227,302	386,411	250,031	136,380
Capital Cost Estimate <sup>1</sup>	\$537,000	\$537,000	\$537,000	\$607,000	\$607,000	\$607,000
Straight Line Depreciation - 20 Years	\$26,850	\$26,850	\$26,850	\$30,350	\$30,350	\$30,350
Location	Rigolet, Labrador Makkovik, Lab				ovik, Labra	ador
Population 2001 Census		317			384	
Gasolines Thruput	210,508	210,508		237,933	237,933	
Distillates Thruput	83,047		83,047	118,275		118,275
Total Annual Thruput (Litres)	293,555	210,508	83,047	356,208	237,933	118,275
Estimated Annual Costs	Totals	Prorate o	n Thruput	Totals	Prorate o	n Thruput
Part-time Salary for Plant Operation <sup>2</sup>	\$11,000	\$7,888	\$3,112	\$11,000	\$7,348	\$3,652
Electrical Power <sup>5</sup>	\$1,829	\$1,312	\$518	\$1,836	\$1,226	\$609
Maintenance	\$440	\$316	\$125	\$534	\$357	\$177
Insurance <sup>3</sup>	\$12,083	\$8,665	\$3,418	\$12,518	\$8,362	\$4,156
Municipal Taxes <sup>4</sup>	\$2,685	\$1,925	\$760	\$3,035	\$2,027	\$1,008
Stock Losses for gasoline 5 % of thruput	\$5,263	\$5,263		\$5,948	\$5,948	
Stock Losses for distillate 2 % of thruput	\$830		\$830	\$1,183		\$1,183
Sub-Total	\$34,131	\$25,368	\$8,762	\$36,054	\$25,268	\$10,786
Direct Operating Costs CPL	<u>11.63</u>	<u>12.05</u>	<u>10.55</u>	<u>10.12</u>	<u>10.62</u>	<u>9.12</u>
Add Depreciation	\$26,850	\$19,254				
Total Annual Cost	\$60,981	\$44,622	\$16,358	\$66,404	\$45,540	\$20,864
Operating Cost CPL	<u>20.77</u>	<u>21.20</u>	<u>19.70</u>	<u>18.64</u>	<u>19.14</u>	<u>17.64</u>

<sup>&</sup>lt;sup>1</sup> Storage based on tankage and equipment per Tables B-5 and B-6 of Appendix B. Labour for construction assumed at 150% of rates on Island of Newfoundland.

<sup>&</sup>lt;sup>2</sup> Balance of salary provided for by dispensing fuel to customers - (provided for in retail margin)

<sup>&</sup>lt;sup>3</sup> Insurance cost estimated at \$0.50 per \$100 of physical property and inventory. First and Third party Liability assuming the plant meets all environmental and safety standards would be \$9000 + HST. Inventory valued at 50 cpl and insured at 50% of capacity.

<sup>&</sup>lt;sup>4</sup> Municipal Taxes Labrador Communities assumed to be 0.5% of capital value per annum (I.e. 5 mils)

<sup>&</sup>lt;sup>5</sup> Electricity costs assumed to double that on Island portion of province.

Table B-13

## Estimated Annual Costs for Specific Marine Depots Labrador North - Using Study Estimate Model

	<b>All Product</b>	Gasoline	Distillate	All Product	Gasoline	Distillate
Nominal Storage Capacity (Litres)	250,031	181,841	68,190	454,601	272,760	181,841
Capital Cost Estimate <sup>1</sup>	\$497,000	\$497,000	\$497,000	\$692,000	\$692,000	\$692,000
Straight Line Depreciation - 20 Years	\$24,850	\$24,850	\$24,850	\$34,600	\$34,600	\$34,600
Location	Postville, Labrador			Hopedale, Labrador		
Population 2001 Census		215		559		
Gasolines Thruput	179,759	179,759		250,000	250,000	
Distillates Thruput	69,825		69,825	161,154		161,154
Total Annual Thruput (Litres)	249,584	179,759	69,825	411,154	250,000	161,154
Estimated Annual Costs	Totals	Prorate o	n Thruput	Totals Prorate on T		n Thruput
Part-time Salary for Plant Operation <sup>2</sup>	\$11,000	\$7,923	\$3,077	\$11,000	\$6,688	\$4,312
Electrical Power <sup>5</sup>	\$1,825	\$1,314	\$511	\$1,841	\$1,119	\$722
Maintenance	\$374	\$270	\$105	\$617	\$375	\$242
Insurance <sup>3</sup>	\$11,798	\$8,497	\$3,301	\$13,028	\$7,922	\$5,106
Municipal Taxes⁴	\$2,485	\$1,790	\$695	\$3,460	\$2,104	\$1,356
Stock Losses for gasoline 5 % of thruput	\$4,494	\$4,494		\$6,250	\$6,250	
Stock Losses for distillate 2 % of thruput	\$698		\$698	\$1,612		\$1,612
Sub-Total	\$32,674	\$24,287	\$8,387	\$37,808	\$24,459	\$13,349
Direct Operating Costs CPL	<u>13.09</u>	<u>13.51</u>	<u>12.01</u>	<u>9.20</u>	<u>9.78</u>	<u>8.28</u>
Add Depreciation	\$24,850	\$17,898	\$6,952	\$34,600	\$21,038	\$13,562
Total Annual Cost	\$57,524	\$42,185				\$26,911
Operating Cost CPL	<u>23.05</u>	23.47	<u>21.97</u>	<u>17.61</u>	<u>18.20</u>	<u>16.70</u>

<sup>&</sup>lt;sup>1</sup> Storage based on tankage and equipment per Tables B-7 and B-8 of Appendix B. Labour for construction assumed at 150% of rates on Island of Newfoundland.

<sup>&</sup>lt;sup>2</sup> Balance of salary provided for by dispensing fuel to customers - (provided for in retail margin)

<sup>&</sup>lt;sup>3</sup> Insurance cost estimated at \$0.50 per \$100 of physical property and inventory. First and Third party Liability assuming the plant meets all environmental and safety standards would be \$9000 + HST. Inventory valued at 50 cpl and insured at 50% of capacity.

<sup>&</sup>lt;sup>4</sup> Municipal Taxes Labrador Communities assumed to be 0.5% of capital value per annum (I.e. 5 mils)

<sup>&</sup>lt;sup>5</sup> Electricity costs assumed to double that on Island portion of province.

Table B-14

## Estimated Annual Costs for Specific Marine Depots Labrador North - Using Study Estimate Model

	All Product	Gasoline	Distillate	
Nominal Storage Capacity (Litres)	795,551	454,601	340,950	
Capital Cost Estimate <sup>1</sup>	\$1,024,000	\$1,024,000	\$1,024,000	
Straight Line Depreciation - 20 Years	\$51,200	\$51,200	\$51,200	
Location	Nain, Labrador			
Population 2001 Census	1,159			
Gasolines Thruput	436,603	436,603		
Distillates Thruput	330,600		330,600	
Total Annual Thruput (Litres)	767,203	436,603	330,600	
Estimated Annual Costs	Totals	Prorate on Thruput		
Part-time Salary for Plant Operation <sup>2</sup>	\$22,000	\$12,520	\$9,480	
Electrical Power <sup>5</sup>	\$1,877	\$1,068	\$809	
Maintenance	\$1,151	\$655	\$496	
Insurance <sup>3</sup>	\$15,114	\$8,601	\$6,513	
Municipal Taxes <sup>4</sup>	\$5,120	\$2,914	\$2,206	
Stock Losses for gasoline 5 % of thruput	\$10,915	\$10,915		
Stock Losses for distillate 2 % of thruput	\$3,306		\$3,306	
Sub-Total	\$59,483	\$36,673	\$22,810	
Direct Operating Costs CPL	<u>7.75</u>	<u>8.40</u>	<u>6.90</u>	
Add Depreciation	\$51,200	\$29,137	\$22,063	
Total Annual Cost	\$110,683	\$65,810	\$44,873	
Operating Cost CPL	<u>14.43</u>	<u>15.07</u>	<u>13.57</u>	

<sup>&</sup>lt;sup>1</sup> Storage based on tankage and equipment per Table B-9 of Appendix B. Labour for construction assumed at 150% of rates on Island of Newfoundland.

<sup>&</sup>lt;sup>2</sup> Balance of salary provided for by dispensing fuel to customers - (provided for in retail margin)

<sup>&</sup>lt;sup>3</sup> Insurance cost estimated at \$0.50 per \$100 of physical property and inventory. First and Third party Liability assuming the plant meets all environmental and safety standards would be \$9000 + HST. Inventory valued at 50 cpl and insured at 50% of capacity.

<sup>&</sup>lt;sup>4</sup> Municipal Taxes Labrador Communities assumed to be 0.5% of capital value per annum (I.e. 5 mils)

<sup>&</sup>lt;sup>5</sup> Electricity costs assumed to double that on Island portion of province.

Table B-15

Estimated Annual Costs for Specific Marine Depots Labrador North - Using Study Estimate Model

Average of 5 North Coast Marine Depots	All Product	Gasoline	Distillate	
Nominal Storage Capacity (Litres)	440,964	250,031	190,933	
Capital Cost Estimate <sup>1</sup>	\$671,400	\$671,400	\$671,400	
Straight Line Depreciation - 20 Years	\$33,570	\$33,850	\$33,850	
Location - All five Communities No	rth Labrador (	h Labrador Coast		
Total Population 2001 Census	2,634	2,634		
Average Population - Five Communities	527	527		
	AVERAGES	}		
Gasolines Thruputs (Average)	262,961	262,961		
Distillates Thruputs (Average)	152,580		152,580	
Total Annual Thruputs- Litres (Average)	415,541	262,961	152,580	
Estimated Annual Costs	Totals	rate on Thruput		
Part-time Salary for Plant Operation <sup>2</sup>	\$13,200	\$8,473	\$4,727	
Electrical Power <sup>5</sup>	\$1,842	\$1,208	\$634	
Maintenance	\$623	\$394	\$229	
Insurance <sup>3</sup>	\$12,908	\$8,409	\$4,499	
Municipal Taxes <sup>4</sup>	\$3,357	\$2,152	\$1,205	
Stock Losses for gasoline 5 % of thruput	\$6,574	\$6,574	\$0	
Stock Losses for distillate 2 % of thruput	\$1,526	\$0	\$1,526	
Sub-Total	\$40,030	\$27,211	\$12,819	
Direct Operating Costs CPL	<u>9.63</u>	<u>10.35</u>	<u>8.40</u>	
(For Stock Losses Product valued at 50 cpl)				
Add Depreciation	\$33,570	\$21,520	\$12,050	
Total Annual Cost	\$73,600	\$48,731	\$24,869	
Total operating Cost CPL	<u>17.39</u>	<u>17.98</u>	<u>16.48</u>	
Less allowance for portion of retail margin included in plant			_	
operation- cents per litre		2.39	2.39	
Net Average Marine Depot Operating Cost CPL		<u>15.59</u>	<u>14.09</u>	

<sup>&</sup>lt;sup>1</sup> Average Capital Cost of all Five North Labrador Coast Communities

<sup>&</sup>lt;sup>2</sup> Balance of salary provided for by dispensing fuel to customers - (provided for in retail margin)

<sup>&</sup>lt;sup>3</sup> Insurance cost estimated at \$0.50 per \$100 of physical property and inventory. First and Third party Liability assuming the plant meets all environmental and safety standards would be \$9000 + HST. Inventory valued at 50 cpl and insured at 50% of capacity.

<sup>&</sup>lt;sup>4</sup> Municipal Taxes Labrador Communities assumed to be 0.5% of capital value per annum (I.e. 5 mils)

<sup>&</sup>lt;sup>5</sup> Electricity costs assumed to double that on Island portion of province.