

Appendix 4C

2002 Base Year Inventory Used to Develop Rate-of-Progress Emission Target Levels

SWCT 2002 Base Year VOC Inventory

STATIONARY SOURCES	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
VOC STORAGE/TRANSPORT/MARKETING		
Gasoline/Crude Oil Storage All (exc float roof)	48.52	
Gasoline/Crude Oil Storage Floating Roof	827.51	
Volatile Organic Liquid (VOL) Storage		
VOL Ship/Barge Transfer		
Barge/Tanker Cleaning		
Bulk Gas Terminals	6,177.75	
Gasoline Bulk Plants		
Tank Truck Unloading		1,333.37
Vehicle Fuel		4,120.81
Underground Tank Breathing		1,382.58
Aircraft Refueling		87.15
Gasoline Trucks in Transit		161.96
Leaking Underground Storage Tanks		158.31
Spills		324.33
Unaccounted Gas Can Emissions (not in 2002 PEI)		9,406.14
Sub-Total: VOC Stor/Trans/Market	7,053.78	16,974.65
INDUSTRIAL PROCESSES		
Organic Chemical Manufacture	4,942.96	
SOCMI Fugitive		
SOCMI Storage Tanks		263.66
Inorganic Chemical Manufacture		
Fermentation Processes		1.01
Pharmaceutical Manufacture		
Plastic Products Manufacture	1,207.77	
Rubber Tire Manufacture		
SBR Rubber Manufacture	414.33	
Textile Polymers & Resin Mfg		
Synthetic Fiber Manufacture		
Iron & Steel Manufacture	1.37	
Other	948.56	
Sub-Total: Industrial Processes	7,514.99	264.67

New: Not in Dec 2005 Final 2002 PEI

STATIONARY SOURCES (cont)	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
INDUSTRIAL SURFACE COATING	2,602.92	10,512.87
Large Appliances		
Magnet Wire		
Autos and Light Trucks		
Cans		
Metal Coils		
Paper		
Fabric		
Metal and Wood Furniture		
Miscellaneous Metal Products		
Flatwood Products		
Plastic Products		
Large Ships		
Large Aircraft		
High Performance Maintenance Coating		
Special Purpose Coating		
Others		
Sub-Total: Ind Surface Coating	2,602.92	10,512.87
NON - INDUSTRIAL SURFACE COATING		
Architectural Coatings		22,495.79
Auto Refinishing		2,352.27
Traffic Markings		867.88
Sub-Total: Non-Ind Surf Coating	0.00	25,715.94
OTHER SOLVENT USE		
Degreasing	98.75	32,675.15
Petroleum Dry Cleaning		113.53
Graphic Arts	1,463.99	7,993.70
Adhesives	25.92	4,730.15
Cutback Asphalt Paving		813.30
Emulsified Asphalt Paving		1,507.72
Solvent Extraction Processes	4.00	
Consumer/Commercial Solvent Use		47,596.89
Other	698.16	
Sub-Total: Other Solvent Use	2,290.82	95,430.44

New: Area source portion not in Dec 2005 Final 2002 PEI

<i>STATIONARY SOURCES (cont)</i>	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
WASTE DISPOSAL		
Municipal Waste Combustion	358.24	
Municipal Waste Landfills		529.38
TSDFs		1,143.73
POTWs		3,682.21
ITWs		
Sub-Total: Waste Disposal	358.24	5,355.32
OTHER STATIONARY SOURCES		
Utility Fuel Combustion	1,208.48	
Industrial Fuel Combustion	86.02	117.17
Commercial Fuel Combustion	62.83	264.27
Residential Fuel Combustion		237.51
Wood Stoves		5,392.10
Forest Fires		1.18
Structural Fires		284.08
Open Burning		53.27
Slash Burning		
Agricultural Burning		
Orchard Heaters		
Pesticide Applications		5,968.20
Asphalt Roofing		
Internal Combustion Engines	733.22	
Sub-Total: Other Stationary Sources	2,090.55	12,317.78
COMMERCIAL PROCESSES		
Bakeries	664.26	1700.17
Breweries		1.01
Sub-Total: Commercial Processes	664.26	1,701.18

<i>MOBILE SOURCES</i>	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
ON - ROAD MOBILE SOURCES		
Light Duty Gas Vehicles		50,588.13
Light Duty Gas Truck 1 & 2		27,232.72
Light Duty Gas Truck 3 & 4		12,534.23
Heavy Duty Gas Vehicles		2,612.48
Light Duty Diesel Vehicle		36.55
Light Duty Diesel Truck		114.61
Heavy Duty Diesel Vehicle		2,538.87
Motorcycles		885.06
Sub-Total: On-Road Mobile Sources	0.00	96,542.64
NON - ROAD MOBILE SOURCES		
Airport Equipment		0.00
Commercial Equipment		9,340.00
Construction Equipment		5,060.00
Farm Equipment		60.00
Industrial Equipment		5,040.00
Lawn & Garden		59,100.00
Logging Equipment		40.00
Recreational Equipment		3,740.00
Recreational Vessels		48,240.00
Rail (equipment + engines)		445.34
Aircraft		729.46
Commercial Vessels		172.07
Sub-Total: Non-Road Mobile Sources	0.00	131,966.87

Differs from Dec 2005 Final 2002 PEI: Uses CTDOT Series 28D updated traffic inputs

Differs from Dec 2005 Final 2002 PEI: Uses EPA's NONROAD2005 model

VOC EMISSION TOTALS	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
STATIONARY SOURCES		
Sub-Total: VOC Stor/Trans/Market	7,053.78	16,974.65
Sub-Total: Industrial Processes	7,514.99	264.67
Sub-Total: Ind Surface Coating	2,602.92	10,512.87
Sub-Total: Non-Ind Surf Coating	0.00	25,715.94
Sub-Total: Other Solvent Use	2,290.82	95,430.44
Sub-Total: Waste Disposal	358.24	5,355.32
Sub-Total: Other Stationary Srcs	2,090.55	12,317.78
Sub-Total: Commercial Processes	664.26	1,701.18
Sub-Total: Stationary Sources	22,575.56	168,272.85

MOBILE SOURCES		
Sub-Total: On-Road Mobile Sources	0.00	96,542.64
Sub-Total: Non-Road Mobile Sources	0.00	131,966.87
Sub-Total: Mobile Sources	0.00	228,509.51

Sub-Total: Biogenic VOC Emissions	0.00	251,261.51
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GRAND TOTAL VOC	22,575.56	648,043.87
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	2002 Actual	
	(lbs/day)	(tons/day)
Stationary Point	22,575.56	11.3
Stationary Area	168,272.85	84.1
On - Road Mobile	96,542.64	48.3
Non - Road Mobile	131,966.87	66.0
TOTAL ANTHROPOGENIC VOC	419,357.92	209.7

335.3

STATIONARY SOURCES	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
VOC STORAGE/TRANSPORT/MARKETING		
Gasoline/Crude Oil Storage All (exc float roof)		
Gasoline/Crude Oil Storage Floating Roof	131.48	
Volatile Organic Liquid (VOL) Storage		
VOL Ship/Barge Transfer		
Barge/Tanker Cleaning		
Bulk Gas Terminals	791.74	
Gasoline Bulk Plants		
Tank Truck Unloading		1,271.03
Vehicle Fuel		4,077.58
Underground Tank Breathing		1,317.94
Aircraft Refueling		284.00
Gasoline Trucks in Transit		153.00
Leaking Underground Storage Tanks		150.77
Spills		497.20
Unaccounted Gas Can Emissions (not in 2002 PEI)		8,029.28
Sub-Total: VOC Stor/Trans/Market	923.22	15,780.80
INDUSTRIAL PROCESSES		
Organic Chemical Manufacture	251.43	
SOCMI Fugitive		
SOCMI Storage Tanks		399.85
Inorganic Chemical Manufacture		
Fermentation Processes		2.01
Pharmaceutical Manufacture	107.40	
Plastic Products Manufacture	488.00	
Rubber Tire Manufacture		
SBR Rubber Manufacture	32.60	
Textile Polymers & Resin Mfg		
Synthetic Fiber Manufacture		
Iron & Steel Manufacture	4.32	
Other	364.26	
Sub-Total: Industrial Processes	1,248.01	401.86

New: Not in Dec 2005 Final 2002 PEI

STATIONARY SOURCES (cont)	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
INDUSTRIAL SURFACE COATING	3,380.23	9,041.96
Large Appliances		
Magnet Wire		
Autos and Light Trucks		
Cans		
Metal Coils		
Paper		
Fabric		
Metal and Wood Furniture		
Miscellaneous Metal Products		
Flatwood Products		
Plastic Products		
Large Ships		
Large Aircraft		
High Performance Maintenance Coating		
Special Purpose Coating		
Others		
Sub-Total: Ind Surface Coating	3,380.23	9,041.96
NON - INDUSTRIAL SURFACE COATING		
Architectural Coatings		18,659.48
Auto Refinishing		1,951.13
Traffic Markings		719.88
Sub-Total: Non-Ind Surf Coating	0.00	21,330.49
OTHER SOLVENT USE		
Degreasing	127.19	31,572.93
Petroleum Dry Cleaning		77.01
Graphic Arts	126.18	7,718.64
Adhesives	41.60	4,848.27
Cutback Asphalt Paving		3,103.22
Emulsified Asphalt Paving		3,647.98
Solvent Extraction Processes		
Consumer/Commercial Solvent Use		32,539.84
Other	142.20	
Sub-Total: Other Solvent Use	437.17	83,507.89

New: Area source portion not in Dec 2005 Final 2002 PEI

<i>STATIONARY SOURCES (cont)</i>	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
WASTE DISPOSAL		
Municipal Waste Combustion	959.66	
Municipal Waste Landfills		1,776.01
TSDFs		527.12
POTWs		3,031.86
ITWs		
Sub-Total: Waste Disposal	959.66	5,334.99
OTHER STATIONARY SOURCES		
Utility Fuel Combustion	446.66	
Industrial Fuel Combustion	188.21	104.58
Commercial Fuel Combustion	29.49	235.75
Residential Fuel Combustion		201.90
Wood Stoves		8,302.76
Forest Fires		13.65
Structural Fires		180.23
Open Burning		56.76
Slash Burning		
Agricultural Burning		
Orchard Heaters		
Pesticide Applications		4,603.95
Asphalt Roofing		
Internal Combustion Engines	1,490.06	
Sub-Total: Other Stationary Sources	2,154.42	13,699.58
COMMERCIAL PROCESSES		
Bakeries	0.58	1960.63
Breweries		2.01
Sub-Total: Commercial Processes	0.58	1,962.64

<i>MOBILE SOURCES</i>	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
ON - ROAD MOBILE SOURCES		
Light Duty Gas Vehicles		47,630.65
Light Duty Gas Truck 1 & 2		25,538.99
Light Duty Gas Truck 3 & 4		11,761.13
Heavy Duty Gas Vehicles		2,217.56
Light Duty Diesel Vehicle		33.20
Light Duty Diesel Truck		104.35
Heavy Duty Diesel Vehicle		2,066.89
Motorcycles		908.15
Sub-Total: On-Road Mobile Sources	0.00	90,260.92
NON - ROAD MOBILE SOURCES		
Airport Equipment		40.00
Commercial Equipment		6,200.00
Construction Equipment		4,020.00
Farm Equipment		280.00
Industrial Equipment		4,400.00
Lawn & Garden		37,500.00
Logging Equipment		100.00
Recreational Equipment		11,820.00
Recreational Vessels		45,840.00
Rail (equipment + engines)		219.71
Aircraft		1,843.69
Commercial Vessels		82.81
Sub-Total: Non-Road Mobile Sources	0.00	112,346.21

Differs from Dec 2005 Final 2002 PEI: Uses CTDOT Series 28D updated traffic inputs

Differs from Dec 2005 Final 2002 PEI: Uses EPA's NONROAD2005 model

VOC EMISSION TOTALS	2002 PI VOC	
	Point	Area
	(lbs/day)	(lbs/day)
STATIONARY SOURCES		
Sub-Total: VOC Stor/Trans/Market	923.22	15,780.80
Sub-Total: Industrial Processes	1,248.01	401.86
Sub-Total: Ind Surface Coating	3,380.23	9,041.96
Sub-Total: Non-Ind Surf Coating	0.00	21,330.49
Sub-Total: Other Solvent Use	437.17	83,507.89
Sub-Total: Waste Disposal	959.66	5,334.99
Sub-Total: Other Stationary Srcs	2,154.42	13,699.58
Sub-Total: Commercial Processes	0.58	1,962.64
Sub-Total: Stationary Sources	9,103.29	151,060.21

MOBILE SOURCES		
Sub-Total: On-Road Mobile Sources	0.00	90,260.92
Sub-Total: Non-Road Mobile Sources	0.00	112,346.21
Sub-Total: Mobile Sources	0.00	202,607.13

Sub-Total: Biogenic VOC Emissions	0.00	537,197.30
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GRAND TOTAL VOC	9,103.29	890,864.64
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	2002 Actual	
	(lbs/day)	(tms/day)
Stationary Point	9,103.29	4.6
Stationary Area	151,060.21	75.5
On - Road Mobile	90,260.92	45.1
Non - Road Mobile	112,346.21	56.2
TOTAL ANTHROPOGENIC VOC	362,770.63	181.4

450.0

STATIONARY SOURCES	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
VOC STORAGE/TRANSPORT/MARKETING		
Gasoline/Crude Oil Storage All (exc float roof)	48.52	0.00
Gasoline/Crude Oil Storage Floating Roof	958.99	0.00
Volatile Organic Liquid (VOL) Storage	0.00	0.00
VOL Ship/Barge Transfer	0.00	0.00
Barge/Tanker Cleaning	0.00	0.00
Bulk Gas Terminals	6969.49	0.00
Gasoline Bulk Plants	0.00	0.00
Tank Truck Unloading	0.00	2,604.40
Vehicle Fuel	0.00	8,198.39
Underground Tank Breathing	0.00	2,700.52
Aircraft Refueling	0.00	371.15
Gasoline Trucks in Transit	0.00	314.96
Leaking Underground Storage Tanks	0.00	309.08
Spills	0.00	821.53
Unaccounted Gas Can Emissions (not in 2002 PEI)	0.00	17,435.42
Sub-Total: VOC Stor/Trans/Market	7,977.00	32,755.45
INDUSTRIAL PROCESSES		
Organic Chemical Manufacture	5194.39	0.00
SOCMI Fugitive	0.00	0.00
SOCMI Storage Tanks	0.00	663.51
Inorganic Chemical Manufacture	0.00	0.00
Fermentation Processes	0.00	3.02
Pharmaceutical Manufacture	107.40	0.00
Plastic Products Manufacture	1695.77	0.00
Rubber Tire Manufacture	0.00	0.00
SBR Rubber Manufacture	446.93	0.00
Textile Polymers & Resin Mfg	0.00	0.00
Synthetic Fiber Manufacture	0.00	0.00
Iron & Steel Manufacture	5.69	0.00
Other	1312.82	0.00
Sub-Total: Industrial Processes	8,763.00	666.53

New: Not in Dec 2005 Final 2002 PEI

STATIONARY SOURCES (cont)	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
INDUSTRIAL SURFACE COATING	5,983.15	19,554.83
Large Appliances		
Magnet Wire		
Autos and Light Trucks		
Cans		
Metal Coils		
Paper		
Fabric		
Metal and Wood Furniture		
Miscellaneous Metal Products		
Flatwood Products		
Plastic Products		
Large Ships		
Large Aircraft		
High Performance Maintenance Coating		
Special Purpose Coating		
Others		
Sub-Total: Ind Surface Coating	5,983.15	19,554.83
NON - INDUSTRIAL SURFACE COATING		
Architectural Coatings	0.00	41,155.27
Auto Refinishing	0.00	4,303.40
Traffic Markings	0.00	1,587.76
Sub-Total: Non-Ind Surf Coating	0.00	47,046.43
OTHER SOLVENT USE		
Degreasing	225.94	64,248.08
Petroleum Dry Cleaning	0.00	190.54
Graphic Arts	1,590.17	15,712.34
Adhesives	67.52	9,578.42
Cutback Asphalt Paving	0.00	3,916.52
Emulsified Asphalt Paving	0.00	5,155.70
Solvent Extraction Processes	4.00	0.00
Consumer/Commercial Solvent Use	0.00	80,136.73
Other	840.36	0.00
Sub-Total: Other Solvent Use	2,727.99	178,938.33

New: Area source portion not in Dec 2005 Final 2002 PEI

<i>STATIONARY SOURCES (cont)</i>	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
WASTE DISPOSAL		
Municipal Waste Combustion	1,317.90	0.00
Municipal Waste Landfills	0.00	2,305.39
TSDFs	0.00	1,670.85
POTWs	0.00	6,714.07
ITWs	0.00	0.00
Sub-Total: Waste Disposal	1,317.90	10,690.31
OTHER STATIONARY SOURCES		
Utility Fuel Combustion	1,655.14	0.00
Industrial Fuel Combustion	274.23	221.75
Commercial Fuel Combustion	92.32	500.02
Residential Fuel Combustion	0.00	439.41
Wood Stoves	0.00	13,694.86
Forest Fires	0.00	14.83
Structural Fires	0.00	464.31
Open Burning	0.00	110.03
Slash Burning	0.00	0.00
Agricultural Burning	0.00	0.00
Orchard Heaters	0.00	0.00
Pesticide Applications	0.00	10,572.15
Asphalt Roofing	0.00	0.00
Internal Combustion Engines	2,223.28	0.00
Sub-Total: Other Stationary Sources	4,244.97	26,017.36
COMMERCIAL PROCESSES		
Bakeries	664.84	3660.8
Breweries	0.00	3.02
Sub-Total: Commercial Processes	664.84	3,663.82

<i>MOBILE SOURCES</i>	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
ON - ROAD MOBILE SOURCES		
Light Duty Gas Vehicles	0.00	98,218.78
Light Duty Gas Truck 1 & 2	0.00	52,771.70
Light Duty Gas Truck 3 & 4	0.00	24,295.36
Heavy Duty Gas Vehicles	0.00	4,830.03
Light Duty Diesel Vehicle	0.00	69.75
Light Duty Diesel Truck	0.00	218.96
Heavy Duty Diesel Vehicle	0.00	4,605.76
Motorcycles	0.00	1,793.21
Sub-Total: On-Road Mobile Sources	0.00	186,803.56
NON - ROAD MOBILE SOURCES		
Airport Equipment	0.00	40.00
Commercial Equipment	0.00	15,540.00
Construction Equipment	0.00	9,080.00
Farm Equipment	0.00	340.00
Industrial Equipment	0.00	9,440.00
Lawn & Garden	0.00	96,600.00
Logging Equipment	0.00	140.00
Recreational Equipment	0.00	15,560.00
Recreational Vessels	0.00	94,080.00
Rail (equipment + engines)	0.00	665.05
Aircraft	0.00	2,573.15
Commercial Vessels	0.00	254.88
Sub-Total: Non-Road Mobile Sources	0.00	244,313.08

Differs from Dec 2005 Final 2002 PEI: Uses CTDOT Series 28D updated traffic inputs

Differs from Dec 2005 Final 2002 PEI: Uses EPA's NONROAD2005 model

VOC EMISSION TOTALS	2002 PI VOC	
	Point (lbs/day)	Area (lbs/day)
STATIONARY SOURCES		
Sub-Total: VOC Stor/Trans/Market	7,977.00	32,755.45
Sub-Total: Industrial Processes	8,763.00	666.53
Sub-Total: Ind Surface Coating	5,983.15	19,554.83
Sub-Total: Non-Ind Surf Coating	0.00	47,046.43
Sub-Total: Other Solvent Use	2,727.99	178,938.33
Sub-Total: Waste Disposal	1,317.90	10,690.31
Sub-Total: Other Stationary Srcs	4,244.97	26,017.36
Sub-Total: Commercial Processes	664.84	3,663.82
Sub-Total: Stationary Sources	31,678.85	319,333.06

MOBILE SOURCES		
Sub-Total: On-Road Mobile Sources	0.00	186,803.56
Sub-Total: Non-Road Mobile Sources	0.00	244,313.08
Sub-Total: Mobile Sources	0.00	431,116.64

Sub-Total: Biogenic VOC Emissions	0.00	788,458.81
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GRAND TOTAL VOC	31,678.85	1,538,908.51
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	2002 Actual	
	(lbs/day)	(tons/day)
Stationary Point	31,678.85	15.8
Stationary Area	319,333.06	159.7
On - Road Mobile	186,803.56	93.4
Non - Road Mobile	244,313.08	122.2
TOTAL ANTHROPOGENIC VOC	782,128.55	391.1

785.3

STATIONARY SOURCES	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
VOC STORAGE/TRANSPORT/MARKETING		
Gasoline/Crude Oil Storage All (exc float roof)		
Gasoline/Crude Oil Storage Floating Roof		
Volatile Organic Liquid (VOL) Storage		
VOL Ship/Barge Transfer		
Barge/Tanker Cleaning		
Bulk Gas Terminals		
Gasoline Bulk Plants		
Tank Truck Unloading		
Vehicle Fuel		
Underground Tank Breathing		
Aircraft Refueling		
Gasoline Trucks in Transit		
Leaking Underground Storage Tanks		
Spills		
Sub-Total: VOC Stor/Trans/Market	0.00	0.00
INDUSTRIAL PROCESSES		
Organic Chemical Manufacture	9.80	
SOCMI Fugitive		
SOCMI Storage Tanks		
Inorganic Chemical Manufacture		
Fermentation Processes		
Pharmaceutical Manufacture		
Plastic Products Manufacture	4.10	
Rubber Tire Manufacture		
SBR Rubber Manufacture		
Textile Polymers & Resin Mfg		
Synthetic Fiber Manufacture		
Iron & Steel Manufacture	209.32	
Other	26.11	
Sub-Total: Industrial Processes	249.33	0.00

STATIONARY SOURCES (cont)	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
INDUSTRIAL SURFACE COATING	34.64	
Large Appliances		
Magnet Wire		
Autos and Light Trucks		
Cans		
Metal Coils		
Paper		
Fabric		
Metal and Wood Furniture		
Miscellaneous Metal Products		
Flatwood Products		
Plastic Products		
Large Ships		
Large Aircraft		
High Performance Maintenance Coating		
Special Purpose Coating		
Others		
Sub-Total: Ind Surface Coating	34.64	0.00
NON - INDUSTRIAL SURFACE COATING		
Architectural Coatings		
Auto Refinishing		
Traffic Markings		
Sub-Total: Non-Ind Surf Coating	0.00	0.00
OTHER SOLVENT USE		
Degreasing		
Petroleum Dry Cleaning		
Graphic Arts	42.32	
Adhesives		
Cutback Asphalt Paving		
Emulsified Asphalt Paving		
Solvent Extraction Processes		
Consumer/Commercial Solvent Use		
Other		
Sub-Total: Other Solvent Use	42.32	0.00

<i>STATIONARY SOURCES (cont)</i>	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
WASTE DISPOSAL		
Municipal Waste Combustion	9,583.21	
Municipal Waste Landfills		
TSDFs		
POTWs		
ITWs		
Sub-Total: Waste Disposal	9,583.21	0.00
OTHER STATIONARY SOURCES		
Utility Fuel Combustion	42,887.50	
Industrial Fuel Combustion	2,819.26	2,837.91
Commercial Fuel Combustion	1,130.20	6,130.74
Residential Fuel Combustion		5,186.68
Wood Stoves		106.21
Forest Fires		0.54
Structural Fires		36.16
Open Burning		2.59
Slash Burning		
Agricultural Burning		
Orchard Heaters		
Pesticide Applications		
Asphalt Roofing		
Internal Combustion Engines	18,697.95	
Sub-Total: Other Stationary Sources	65,534.91	14,300.83
COMMERCIAL PROCESSES		
Bakeries	52.40	
Breweries		
Sub-Total: Commercial Processes	52.40	0.00

<i>MOBILE SOURCES</i>	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
ON - ROAD MOBILE SOURCES		
Light Duty Gas Vehicles		52,114.72
Light Duty Gas Truck 1 & 2		35,998.74
Light Duty Gas Truck 3 & 4		14,802.85
Heavy Duty Gas Vehicles		10,237.58
Light Duty Diesel Vehicle		91.98
Light Duty Diesel Truck		286.20
Heavy Duty Diesel Vehicle		91,611.96
Motorcycles		215.46
Sub-Total: On-Road Mobile Sources	0.00	205,359.49
NON - ROAD MOBILE SOURCES		
Airport Equipment		0.00
Commercial Equipment		5,680.00
Construction Equipment		27,440.00
Farm Equipment		360.00
Industrial Equipment		20,340.00
Lawn & Garden		8,840.00
Logging Equipment		60.00
Recreational Equipment		260.00
Recreational Vessels		4,540.00
Rail (equipment + engines)		8,764.00
Aircraft		231.04
Commercial Vessels		943.45
Sub-Total: Non-Road Mobile Sources	0.00	77,458.49

Differs from Dec 2005 Final 2002 PEI: Uses CTDOT Series 28D updated traffic inputs

Differs from Dec 2005 Final 2002 PEI: Uses EPA's NONROAD2005 model

NOx EMISSION TOTALS	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
STATIONARY SOURCES		
Sub-Total: VOC Stor/Trans/Market	0.00	0.00
Sub-Total: Industrial Processes	249.33	0.00
Sub-Total: Ind Surface Coating	34.64	0.00
Sub-Total: Non-Ind Surf Coating	0.00	0.00
Sub-Total: Other Solvent Use	42.32	0.00
Sub-Total: Waste Disposal	9,583.21	0.00
Sub-Total: Other Stationary Srcs	65,534.91	14,300.83
Sub-Total: Commercial Processes	52.40	0.00
Sub-Total: Stationary Sources	75,496.81	14,300.83

MOBILE SOURCES		
Sub-Total: On-Road Mobile Sources	0.00	205,359.49
Sub-Total: Non-Road Mobile Sources	0.00	77,458.49
Sub-Total: Mobile Sources	0.00	282,817.98

Sub-Total: Biogenic NOx Emissions	0.00	1,315.10
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GRAND TOTAL NOx	75,496.81	298,433.91
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	2002 Actual	
	(lbs/day)	(tons/day)
Stationary Point	75,496.81	37.7
Stationary Area	14,300.83	7.2
On - Road Mobile	205,359.49	102.7
Non - Road Mobile	77,458.49	38.7
TOTAL ANTHROPOGENIC NOx	372,615.62	186.3

STATIONARY SOURCES	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
VOC STORAGE/TRANSPORT/MARKETING		
Gasoline/Crude Oil Storage All (exc float roof)		
Gasoline/Crude Oil Storage Floating Roof		
Volatile Organic Liquid (VOL) Storage		
VOL Ship/Barge Transfer		
Barge/Tanker Cleaning		
Bulk Gas Terminals	14.74	
Gasoline Bulk Plants		
Tank Truck Unloading		
Vehicle Fuel		
Underground Tank Breathing		
Aircraft Refueling		
Gasoline Trucks in Transit		
Leaking Underground Storage Tanks		
Spills		
Sub-Total: VOC Stor/Trans/Market	14.74	0.00
INDUSTRIAL PROCESSES		
Organic Chemical Manufacture	6.40	
SOCMI Fugitive		
SOCMI Storage Tanks		
Inorganic Chemical Manufacture		
Fermentation Processes		
Pharmaceutical Manufacture	4.69	
Plastic Products Manufacture		
Rubber Tire Manufacture		
SBR Rubber Manufacture		
Textile Polymers & Resin Mfg		
Synthetic Fiber Manufacture		
Iron & Steel Manufacture	251.08	
Other	158.80	
Sub-Total: Industrial Processes	420.97	0.00

STATIONARY SOURCES (cont)	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
INDUSTRIAL SURFACE COATING	109.46	
Large Appliances		
Magnet Wire		
Autos and Light Trucks		
Cans		
Metal Coils		
Paper		
Fabric		
Metal and Wood Furniture		
Miscellaneous Metal Products		
Flatwood Products		
Plastic Products		
Large Ships		
Large Aircraft		
High Performance Maintenance Coating		
Special Purpose Coating		
Others		
Sub-Total: Ind Surface Coating	109.46	0.00
NON - INDUSTRIAL SURFACE COATING		
Architectural Coatings		
Auto Refinishing		
Traffic Markings		
Sub-Total: Non-Ind Surf Coating	0.00	0.00
OTHER SOLVENT USE		
Degreasing		
Petroleum Dry Cleaning		
Graphic Arts	21.94	
Adhesives		
Cutback Asphalt Paving		
Emulsified Asphalt Paving		
Solvent Extraction Processes		
Consumer/Commercial Solvent Use		
Other		
Sub-Total: Other Solvent Use	21.94	0.00

<i>STATIONARY SOURCES (cont)</i>	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
WASTE DISPOSAL		
Municipal Waste Combustion	12,971.32	
Municipal Waste Landfills		
TSDFs		
POTWs		
ITWs		
Sub-Total: Waste Disposal	12,971.32	0.00
OTHER STATIONARY SOURCES		
Utility Fuel Combustion	6,743.56	
Industrial Fuel Combustion	5,748.19	2,532.95
Commercial Fuel Combustion	688.31	5,469.24
Residential Fuel Combustion		4,489.10
Wood Stoves		177.21
Forest Fires		6.22
Structural Fires		22.94
Open Burning		2.76
Slash Burning		
Agricultural Burning		
Orchard Heaters		
Pesticide Applications		
Asphalt Roofing		
Internal Combustion Engines	11,363.26	
Sub-Total: Other Stationary Sources	24,543.32	12,700.42
COMMERCIAL PROCESSES		
Bakeries	10.20	
Breweries		
Sub-Total: Commercial Processes	10.20	0.00

<i>MOBILE SOURCES</i>	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
ON - ROAD MOBILE SOURCES		
Light Duty Gas Vehicles		47,966.47
Light Duty Gas Truck 1 & 2		33,027.47
Light Duty Gas Truck 3 & 4		13,560.06
Heavy Duty Gas Vehicles		8,437.28
Light Duty Diesel Vehicle		83.63
Light Duty Diesel Truck		261.44
Heavy Duty Diesel Vehicle		75,081.25
Motorcycles		213.91
Sub-Total: On-Road Mobile Sources	0.00	178,631.50
NON - ROAD MOBILE SOURCES		
Airport Equipment		300.00
Commercial Equipment		3,640.00
Construction Equipment		21,780.00
Farm Equipment		1,960.00
Industrial Equipment		17,680.00
Lawn & Garden		4,920.00
Logging Equipment		180.00
Recreational Equipment		520.00
Recreational Vessels		2,380.00
Rail (equipment + engines)		3,993.76
Aircraft		3,818.11
Commercial Vessels		456.57
Sub-Total: Non-Road Mobile Sources	0.00	61,628.44

Differs from Dec 2005 Final 2002 PEI: Uses CTDOT Series 28D updated traffic inputs

Differs from Dec 2005 Final 2002 PEI: Uses EPA's NONROAD2005 model

<i>NOx EMISSION TOTALS</i>	2002 PI NOx	
	Point	Area
	(lbs/day)	(lbs/day)
STATIONARY SOURCES		
Sub-Total: VOC Stor/Trans/Market	14.74	0.00
Sub-Total: Industrial Processes	420.97	0.00
Sub-Total: Ind Surface Coating	109.46	0.00
Sub-Total: Non-Ind Surf Coating	0.00	0.00
Sub-Total: Other Solvent Use	21.94	0.00
Sub-Total: Waste Disposal	12,971.32	0.00
Sub-Total: Other Stationary Srce	24,543.32	12,700.42
Sub-Total: Commercial Processes	10.20	0.00
Sub-Total: Stationary Sources	38,091.95	12,700.42
NOx Reductions due to OTC/MOU & NBP		

MOBILE SOURCES		
Sub-Total: On-Road Mobile Sources	0.00	178,631.50
Sub-Total: Non-Road Mobile Sources	0.00	61,628.44
Sub-Total: Mobile Sources	0.00	240,259.94

Sub-Total: Biogenic NOx Emissions	0.00	2,508.43
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GRAND TOTAL NOx	38,091.95	255,468.79
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	2002 Actual	
	(lbs/day)	(tons/day)
Stationary Point	38,091.95	19.0
Stationary Area	12,700.42	6.4
On - Road Mobile	178,631.50	89.3
Non - Road Mobile	61,628.44	30.8
TOTAL ANTHROPOGENIC NOx	291,052.31	145.5

STATIONARY SOURCES	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
VOC STORAGE/TRANSPORT/MARKETING		
Gasoline/Crude Oil Storage All (exc float roof)	0.00	0.00
Gasoline/Crude Oil Storage Floating Roof	0.00	0.00
Volatile Organic Liquid (VOL) Storage	0.00	0.00
VOL Ship/Barge Transfer	0.00	0.00
Barge/Tanker Cleaning	0.00	0.00
Bulk Gas Terminals	14.74	0.00
Gasoline Bulk Plants	0.00	0.00
Tank Truck Unloading	0.00	0.00
Vehicle Fuel	0.00	0.00
Underground Tank Breathing	0.00	0.00
Aircraft Refueling	0.00	0.00
Gasoline Trucks in Transit	0.00	0.00
Leaking Underground Storage Tanks	0.00	0.00
Spills	0.00	0.00
Sub-Total: VOC Stor/Trans/Market	14.74	0.00
INDUSTRIAL PROCESSES		
Organic Chemical Manufacture	16.20	0.00
SOCMI Fugitive	0.00	0.00
SOCMI Storage Tanks	0.00	0.00
Inorganic Chemical Manufacture	0.00	0.00
Fermentation Processes	0.00	0.00
Pharmaceutical Manufacture	4.69	0.00
Plastic Products Manufacture	4.10	0.00
Rubber Tire Manufacture	0.00	0.00
SBR Rubber Manufacture	0.00	0.00
Textile Polymers & Resin Mfg	0.00	0.00
Synthetic Fiber Manufacture	0.00	0.00
Iron & Steel Manufacture	460.40	0.00
Other	184.91	0.00
Sub-Total: Industrial Processes	670.30	0.00

STATIONARY SOURCES (cont)	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
INDUSTRIAL SURFACE COATING	144.1	0
Large Appliances		
Magnet Wire		
Autos and Light Trucks		
Cans		
Metal Coils		
Paper		
Fabric		
Metal and Wood Furniture		
Miscellaneous Metal Products		
Flatwood Products		
Plastic Products		
Large Ships		
Large Aircraft		
High Performance Maintenance Coating		
Special Purpose Coating		
Others		
Sub-Total: Ind Surface Coating	144.10	0.00
NON - INDUSTRIAL SURFACE COATING		
Architectural Coatings	0.00	0.00
Auto Refinishing	0.00	0.00
Traffic Markings	0.00	0.00
Sub-Total: Non-Ind Surf Coating	0.00	0.00
OTHER SOLVENT USE		
Degreasing	0.00	0.00
Petroleum Dry Cleaning	0.00	0.00
Graphic Arts	64.26	0.00
Adhesives	0.00	0.00
Cutback Asphalt Paving	0.00	0.00
Emulsified Asphalt Paving	0.00	0.00
Solvent Extraction Processes	0.00	0.00
Consumer/Commercial Solvent Use	0.00	0.00
Other	0.00	0.00
Sub-Total: Other Solvent Use	64.26	0.00

<i>STATIONARY SOURCES (cont)</i>	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
WASTE DISPOSAL		
Municipal Waste Combustion	22,554.53	0.00
Municipal Waste Landfills	0.00	0.00
TSDFs	0.00	0.00
POTWs	0.00	0.00
ITWs	0.00	0.00
Sub-Total: Waste Disposal	22,554.53	0.00
OTHER STATIONARY SOURCES		
Utility Fuel Combustion	49,631.06	0.00
Industrial Fuel Combustion	8,567.45	5,370.86
Commercial Fuel Combustion	1,818.51	11,599.98
Residential Fuel Combustion	0.00	9,675.78
Wood Stoves	0.00	283.42
Forest Fires	0.00	6.76
Structural Fires	0.00	59.10
Open Burning	0.00	5.35
Slash Burning	0.00	0.00
Agricultural Burning	0.00	0.00
Orchard Heaters	0.00	0.00
Pesticide Applications	0.00	0.00
Asphalt Roofing	0.00	0.00
Internal Combustion Engines	30,061.21	0.00
Sub-Total: Other Stationary Sources	90,078.23	27,001.25
COMMERCIAL PROCESSES		
Bakeries	62.60	0.00
Breweries	0.00	0.00
Sub-Total: Commercial Processes	62.60	0.00

<i>MOBILE SOURCES</i>	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
ON - ROAD MOBILE SOURCES		
Light Duty Gas Vehicles	0.00	100,081.19
Light Duty Gas Truck 1 & 2	0.00	69,026.22
Light Duty Gas Truck 3 & 4	0.00	28,362.90
Heavy Duty Gas Vehicles	0.00	18,674.85
Light Duty Diesel Vehicle	0.00	175.62
Light Duty Diesel Truck	0.00	547.64
Heavy Duty Diesel Vehicle	0.00	166,693.21
Motorcycles	0.00	429.36
Sub-Total: On-Road Mobile Sources	0.00	383,990.99
NON - ROAD MOBILE SOURCES		
Airport Equipment	0.00	300.00
Commercial Equipment	0.00	9,320.00
Construction Equipment	0.00	49,220.00
Farm Equipment	0.00	2,320.00
Industrial Equipment	0.00	38,020.00
Lawn & Garden	0.00	13,760.00
Logging Equipment	0.00	240.00
Recreational Equipment	0.00	780.00
Recreational Vessels	0.00	6,920.00
Rail (equipment + engines)	0.00	12,757.76
Aircraft	0.00	4,049.15
Commercial Vessels	0.00	1,400.02
Sub-Total: Non-Road Mobile Sources	0.00	139,086.93

Differs from Dec 2005 Final 2002 PEI: Uses CTDOT Series 28D updated traffic inputs

Differs from Dec 2005 Final 2002 PEI: Uses EPA's NONROAD2005 model

NOx EMISSION TOTALS	2002 PI NOx	
	Point (lbs/day)	Area (lbs/day)
STATIONARY SOURCES		
Sub-Total: VOC Stor/Trans/Market	14.74	0.00
Sub-Total: Industrial Processes	670.30	0.00
Sub-Total: Ind Surface Coating	144.10	0.00
Sub-Total: Non-Ind Surf Coating	0.00	0.00
Sub-Total: Other Solvent Use	64.26	0.00
Sub-Total: Waste Disposal	22,554.53	0.00
Sub-Total: Other Stationary Srcs	90,078.23	27,001.25
Sub-Total: Commercial Processes	62.60	0.00
Sub-Total: Stationary Sources	113,588.76	27,001.25
NOx Reductions due to OTC/MOU & NBP		

MOBILE SOURCES		
Sub-Total: On-Road Mobile Sources	0.00	383,990.99
Sub-Total: Non-Road Mobile Sources	0.00	139,086.93
Sub-Total: Mobile Sources	0.00	523,077.92

Sub-Total: Biogenic NOx Emissions	0.00	3,823.53
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GRAND TOTAL NOx	113,588.76	553,902.70
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	2002 Actual	
	(lbs/day)	(tons/day)
Stationary Point	113,588.76	56.8
Stationary Area	27,001.25	13.5
On - Road Mobile	383,990.99	192.0
Non - Road Mobile	139,086.93	69.5
TOTAL ANTHROPOGENIC NOx	663,667.93	331.8