

# ***ALBERTA CHEMICAL OPERATIONS***

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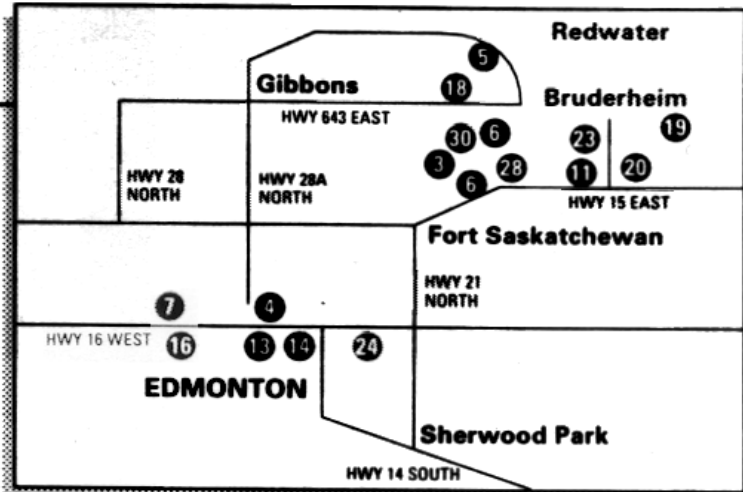
*May, 2000*

# **INDEX**

- 1. CHEMICAL OPERATIONS IN ALBERTA**  
**- Locations Map**
- 2. ALBERTA CHEMICAL OPERATIONS**  
**- Products and Capacities Listing**
- 3. ALBERTA CHEMICAL OPERATIONS**  
**- Chronological Listing**
- 4. ALBERTA CHEMICAL OPERATIONS**  
**- Plant Contact Directory**
- 5. ALBERTA CHEMICAL OPERATIONS**  
**- Refinery Contact Directory**

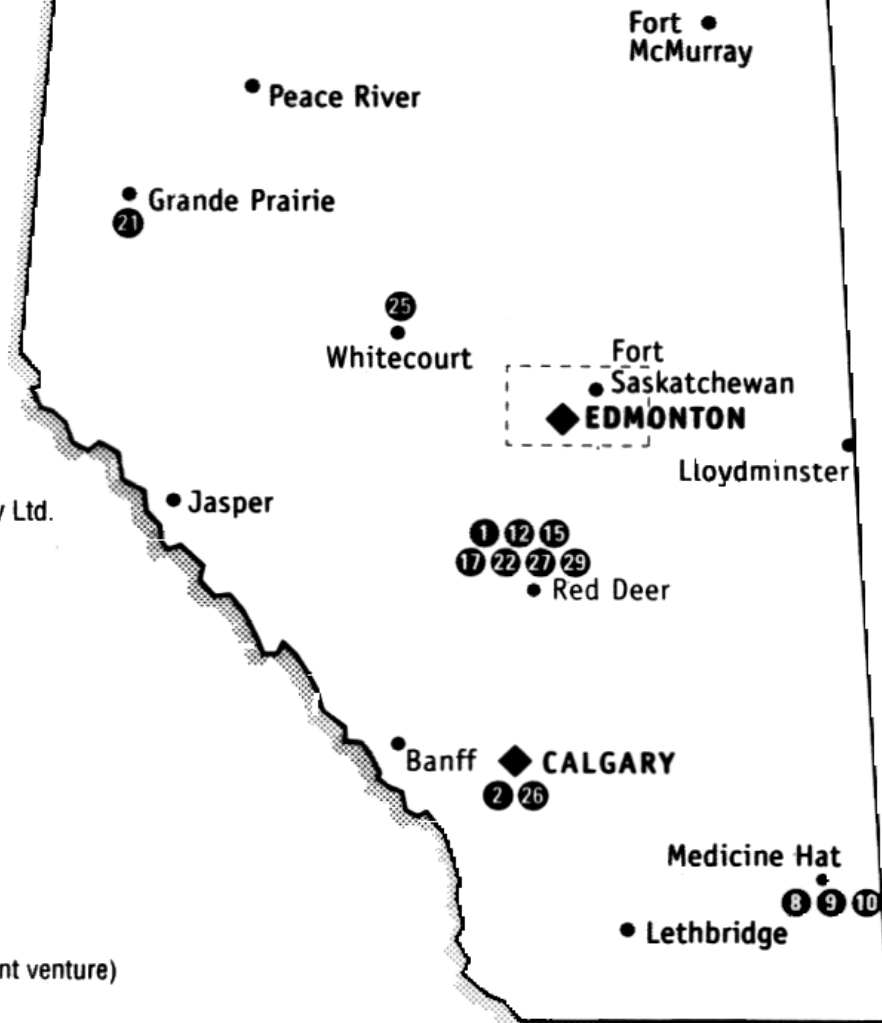
ALBERTA'S PETROCHEMICAL INDUSTRY

**LOCATION OF CHEMICAL OPERATIONS IN ALBERTA**



**CHEMICAL COMPANIES**

1. Agrium Inc., Joffre
2. Agrium Inc., Carseland
3. Agrium Inc., Fort Saskatchewan
4. Celanese Canada Inc.
5. Agrium Inc., Redwater
6. Sherritt International Corporation
7. Borden Chemical, Inc.
8. Cancarb Limited
9. Methanex Corporation
10. Canadian Fertilizers Ltd.
11. OxyVinyls Canada
12. Alberta & Orient Glycols Co.
13. AT Plastics Inc.
14. Alberta Envirofuels Inc.
15. Amoco Canada Petroleum Company Ltd.
16. Raylo Chemicals/Laporte plc
17. Union Carbide Corporation
18. Degussa-Huls Canada Inc.
19. CXY Chemicals Ltd.
20. Albchem Industries Ltd.
21. Sterling Pulp Chemicals Ltd.
22. NOVA Chemicals Ltd.
23. Shell Canada Ltd.
24. Canadian Liquid Air Ltd.
25. National Silicates Limited
26. ICI Canada Inc.
27. Praxair Inc., Red Deer
28. Praxair Inc., Fort Saskatchewan
29. NOVA Chemicals/Union Carbide (joint venture)
30. Dow Chemicals Canada Inc.



**ALBERTA CHEMICAL OPERATIONS**  
**- Products and Capacities -**

COMPANY	LOCATION	PRODUCTS	ANNUAL CURRENT CAPACITY (kt)
Agrim Inc.	Carseland	Ammonia	535
		Urea	750
	Joffre	Ammonia	450
Agrim Inc.	Ft. Saskatchewan	Ammonia	215
		Urea	430
	Redwater	Ammonia	960
		Ammonium Nitrate	215
		Sulphuric Acid	1,030
		Phosphoric Acid	345
		Mono Ammonium Phosphate	680
		Nitric Acid	172
		Urea	720
		Ammonium Sulphate	300
UAN Solution	180		
Albchem Industries Inc.	Bruderheim	Sodium Chlorate	80
Alberta Envirofuels	Strathcona	Iso-octane	520
Air Liquide Canada Inc.	Scotford	Oxygen/Nitrogen/Argon	1) 330
		Carbon Dioxide	2) 100
AT Plastics	Edmonton	Specialty Resins	161
		Plastic Film	18
Borden Chemical Canada, Ltd.	Edmonton	Phenol Formaldehyde Resin Urea Formaldehyde Resin Spray Dried PF Resin Formaldehyde (100%) Emulsified Wax	Company confidential

**ALBERTA CHEMICAL OPERATIONS**  
**- Products and Capacities -**

<b>COMPANY</b>	<b>LOCATION</b>	<b>PRODUCTS</b>	<b>ANNUAL CURRENT CAPACITY KT</b>
Canadian Fertilizers Ltd.	Medicine Hat	Ammonia Urea	1250 800
Cancarb Limited	Medicine Hat	Carbon Black	36
Celanese Canada Inc.	Edmonton	Formaldehyde Pentaerythritol Acetic Acid/Anhydride Sodium Formate Vinyl Acetate Methanol Cellulose Acetate	55 (100%) 26 110 15 80 858 34
Nexen Chemicals	Bruderheim	Sodium Chlorate	70
Degussa-Huls Canada Inc.	Gibbons	Hydrogen Peroxide	80
Dow Chemical Canada Inc.	Prentiss  Ft. Saskatchewan	Ethylene Glycol Polyethylene  Hydrochloric Acid Styrofoam Vinyl Chloride Monomer Ethylene Dichloride Ethylene Glycol Caustic Soda Chlorine Ethylene Plant Polyethylene	400 500  40 (100%) 10 730 1095 365 639 597 1304 848
Oxy Vinyls Canada Inc.	Ft. Saskatchewan	Polyvinyl Chloride Resin	160
Methanex	Medicine Hat	Plant I & II shut down Methanol (Plant III)	N/A

**ALBERTA CHEMICAL OPERATIONS**

***- Products and Capacities -***

<b>COMPANY</b>	<b>LOCATION</b>	<b>PRODUCTS</b>	<b>ANNUAL CURRENT CAPACITY KT</b>
Nova Chemicals Corporation	Joffre	Ethylene (Plant I) Ethylene (Plant II) Ethylene (Plant III) LLDPE LLDPE	Plants I & II, 1,542  1275 981
Orica Canada Inc.	Carseland	Ammonium Nitrate (Industrial Grade)	500
Oxy Vinyls Canada Inc.	Ft. Saskatchewan	Polyvinyl Chloride Resin	160
Raylo	Ft. Saskatchewan	Fire Chemicals	N/A
Shell Chemicals Canada Ltd.	Scotford	Styrene Ethylene Glycol	450 400
Sherritt International Corporation	Ft. Saskatchewan	Ammonia Urea Ammonium Sulphate	155 105 200
Sterling Chemicals	Grande Prairie	Sodium Chlorate	55

## ALBERTA CHEMICALS OPERATIONS

*- Chronological -*

<b>PERIOD</b>	<b>START-UP YEAR</b>	<b>COMPANY</b>	<b>LOCATION</b>	<b>PRODUCTS</b>
1950's	1952	Celanese Canada Inc.	Edmonton	Formaldehyde Pentaerythritol Acetic Acid Anhydride Solvents Cellulose Acetate
	1953	AT Plastics	Edmonton	Specialty Resins Plastic Film
	1954	Agrium Inc.	Ft. Saskatchewan	Ammonia Urea
	1957	Borden Chemical Canada, Limited	Edmonton	Phenolic Resins
1960's	1961	Dow Chemical Canada Inc.	Ft. Saskatchewan	Hydrochloric Acid
	1963	Raylo Chemicals Inc.	Ft. Saskatchewan	Fire Chemicals (Pilot Plant)
	1965	Thio-Pet Chemicals Ltd.	Ft. Saskatchewan	Carbon Disulfide
	1969	Agrium Inc.	Redwater	Ammonia Ammonium Nitrate Sulphuric Acid Phosphoric Acid Ammonium Phosphate Nitric Acid
1970's	1974	Cancarb	Medicine Hat	Carbon Black
	1974	Dow Chemical Canada Inc.	Ft. Saskatchewan	Styrofoam
	1975	Methanex	Medicine Hat	Methanol (Plant I)
	1976	Canadian Fertilizers	Medicine Hat	Ammonia Urea
	1977	Agrium Inc.	Carseland	Ammonia Urea
	1977	Orica Canada Inc.	Carseland	Ammonium Nitrate

## ALBERTA CHEMICALS OPERATIONS

*- Chronological -*

PERIOD	START-UP YEAR	COMPANY	LOCATION	PRODUCTS
	1979	Dow Chemical Canada Inc.	Ft. Saskatchewan	Vinyl Chloride Monomer Ethylene Dichloride Ethylene Glycol Caustic Soda Chlorine
	1979	Oxy Vinyls Canada Inc.	Ft. Saskatchewan	Polyvinyl Chloride
	1979	Nova Chemicals	Joffre	Ethylene (Plant I)
1980's	1980	Celanese Canada	Edmonton	Vinyl Acetate
	1982	Air Liquide Canada Inc.	Strathcona	Oxygen/Nitrogen/Argon
	1982	AT Plastics	Edmonton	Polyethylene & Co-polymers
	1982	Celanese Canada	Edmonton	Methanol
	1983	Agrium Inc. (Expansion)	Redwater	Ammonia Urea Sulphuric Acid Phosphoric Acid
	1983	Agrium Inc.	Ft. Saskatchewan	Ammonia Urea
	1983	Borden Chemical Canada, Ltd.	Edmonton	Formaldehyde Resins
	1984	Union Carbide Canada Inc.	Prentiss	Ethylene Glycol
	1984	Nova Chemicals	Joffre	Ethylene (Plant II)
	1984	Nova Chemicals	Joffre	LLDPE
	1984	Shell Canada Chemical Co.	Scotford	Styrene
	1985	Dow Chemical Canada Inc.	Ft. Saskatchewan	LLDPE
	1985	Air Liquide Canada Inc.	Medicine Hat	Carbon Dioxide
	1987	Agrium Inc.	Joffre	Ammonia
1990's	1991	Degussa-Huls Canada Inc.	Gibbons	Hydrogen Peroxide
	1991	Air Liquide Canada Inc.	Strathcona	Oxygen/Nitrogen/Argon
	1991	CXY Chemicals	Bruderheim	Sodium Chlorate

## ALBERTA CHEMICALS OPERATIONS

*- Chronological -*

PERIOD	START-UP YEAR	COMPANY	LOCATION	PRODUCTS
	1991	Albchem Industries Inc.	Bruderheim	Sodium Chlorate
	1992	Alberta Envirofuels Inc.	Strathcona	MTBE
	1992	Sterling Chemicals	Grande Prairie	Sodium Chlorate
	1994	Alberta & Orient Glycol Company	Prentiss	Ethylene Glycol
	1994	Dow Chemical Canada Inc.	Ft. Saskatchewan	Ethylene Plant Polyethylene Expansion
	1994	Celanese Canada Inc.	Edmonton	Sodium Formate
	1995	Borden Chemical Canada, Ltd.	Edmonton	Phenol Formaldehyde Resin Expansion & Phenol Formaldehyde Spray Dried Resin Unit #2
	1996	Borden Chemical Canada, Ltd.	Edmonton	Emulsified Wax
	1996	Degussa-Huls Canada Inc.	Gibbons	Hydrogen Peroxide Plant
	1997	Borden Chemical Canada, Ltd.	Edmonton	Formaldehyde Unit #2
	1997	Raylo Chemicals	Ft. Saskatchewan	Fire Chemicals
	1998	Dow Chemical Canada Inc.	Ft. Saskatchewan	Ethylene (Projected Increase in Production = 365 KT)
	1999	Dow Chemical Canada Inc.	Ft. Saskatchewan	Polyethylene III (Projected Annual Increase in Production = 250 KT)

**ALBERTA CHEMICALS OPERATIONS**  
**- Chronological -**

<b>PERIOD</b>	<b>START-UP YEAR</b>	<b>COMPANY</b>	<b>LOCATION</b>	<b>PRODUCTS</b>
	2000	Canadian Liquid Air	Strathcona County	Air Separation Plant (Production = 800 tonnes)
	2000	Nova/Union Carbide Canada	Joffre	Ethylene Plant III (Projected Production = 1360 KT)
	2000	Shell Canada Chemical Co.	Scotford	Ethylene Glycol (Projected Production = 443 KT)
	2000	Union Carbide Canada	Prentiss	UDPE (Projected Annual Increase in Production = 771 KT)
	2001	Nova Chemicals Corporation	Joffre	LLDPE Sclairtech (Projected Production = 380 KT)
	2001	Amoco	Joffre	Alpha Olefins (Production = 250 KT)

**ALBERTA CHEMICALS OPERATIONS**  
**- Plant Contact Directory -**

<b>COMPANY</b>	<b>NAME</b>	<b>TITLE</b>	<b>ADDRESS</b>	<b>PHONE</b>	<b>FAX</b>	<b># OF EMPLOYEES</b>
Agrium Inc.	Mr. Greg Yont	Plant Manager Carseland Plant	P.O. Box 5370, Stn. A Calgary AB T2H 2P4	(403) 936-5821 Ext. 368	(403) 936-5820	125
Agrium Inc.	Ms. Melissa Craig	Plant Manager Joffre Nitrogen Operations	P.O. Box 666 Red Deer AB T4N 5G6	(403) 885-4010 Ext. 116	(403) 885-5653	30
Agrium Inc.	Mr. Alex Giovanelli	Site Manager, Ft. Saskatchewan	11751 River Road Ft. Saskatchewan AB T8L 4J1	(780) 998-6911	(780) 998-6622	100
	Mr. Darryl Bartz	Redwater Operations	Bag 20 Redwater AB T0A 2W0	(780) 998-6842	(780) 998-6174	400
Air Liquide Canada Inc.	Ms. Nancy Brochu	On-site Manager	P.O. Box 787 Medicine Hat AB T1A 7G7	(780) 992-5836	(780) 992-1918	3
	Mr. Esko Hanninen	Retail Production Manager	555 22 Range Road 214 Bag5 Ft. Saskatchewan AB T8L 3T2	(780) 992-1077	(780) 449-4420	19
Albchem Industries Ltd.	Mr. Albert Wong	Plant Manager	P.O. Box 278 Bruderheim AB T0B 0S0	(780) 796-3900	(780) 796-2226	26
Dow Chemical Canada Inc.	Mr. Peter Ott	Plant Manager	P.O. Box 5501 Red Deer AB T4N 6N1	(403) 885-7000	(403) 885-7007	270
	Mr. Vince Smith	President & CEO – Western Canada, Site Leader	P.O. Bag 16, Highway 15 Ft. Saskatchewan AB T8L 2P4	(780) 998-8265	(780) 998-6717	850 (+ 250-300 contractors)
	Mr. H.W. (Wil) Vandenborn	Director, Government Affairs		(780) 998-8224 (780) 478-1367 (res.)		
Alberta Envirofuels Inc.	Mr. Harri Jarvelin	General Manager	P.O. Bag 2424 or 9511 – 17 Street Edmonton AB T6P 1Y3	(780) 449-7810	(780) 449-0621	100

**ALBERTA CHEMICALS OPERATIONS**  
**- Plant Contact Directory -**

<b>COMPANY</b>	<b>NAME</b>	<b>TITLE</b>	<b>ADDRESS</b>	<b>PHONE</b>	<b>FAX</b>	<b># OF EMPLOYEES</b>
AT Plastics Inc.	Mr. R.J. (Russ) Johnston	Executive Vice-President of Manufacturing	4405 – 101 Avenue P.O. Box 428 Edmonton AB T5J 2K1	(780) 468-8313	(780) 468-8315	350
Borden Chemical Canada Ltd.	Mr. Curtis Shelast	Regional Supplies Manager	12621 – 156 Street Edmonton AB T5V 1E1	(780) 447-8474	(780) 447-1044	60
Canadian Fertilizers Ltd.	Mr. Russ A. Holowaychuk	Vice President & General Manager	P.O. Box 1300 Medicine Hat AB T1A 7R9	(403) 527-8887	(403) 526-8843	173 (+30 contractors)
Cancarb Limited	Mr. Tom Beach	Director Operations	P.O. Box 310 1702 Brier Park Cres. NW Medicine Hat AB T1A 7G1	(403) 527-1121	(403) 529-6093	70
Celanese Canada Inc.	Dr. Andy Day	Site Director	P.O. Box 99 Edmonton AB T5J 2H7 250 Hayter Road NW Edmonton AB T6S 1A2	(780) 471-0323	(780) 471-0113	500
Nexen Chemicals	Mr. Kevin Meaney	Plant Manager	P.O. Box 100 Bruderheim AB T0B 0S0	(780) 796-6107	(780) 796-3838	30
Degussa-Huls Canada Inc.	Dr. Dieter Hollmann	Plant Manager	Highway 643, E. Gibbons P.O. Box 1000 Gibbons AB T0A 1N0	(780) 992-3330	(780) 992-3380	55

**ALBERTA CHEMICALS OPERATIONS**  
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<b>COMPANY</b>	<b>NAME</b>	<b>TITLE</b>	<b>ADDRESS</b>	<b>PHONE</b>	<b>FAX</b>	<b># OF EMPLOYEES</b>
Imperial Oil (Strathcona) Esso Chemical Canada	Mr. Dave Barrett	Plant Manager	Highway 16A East & 34 Street, P.O. Box 1020 Edmonton AB T5J 2M1	(780) 449-8571	(780) 449-8191	400
Marsulex Inc.	Mr. Tim Anderson	Production Co-ordinator	11652 - 99 Avenue Ft. Saskatchewan AB T8L 2T2	(780) 998-2225	(780) 998-0959	20
Methanex Corporation	Mr. Dave Mandryk	Home Co-ordinator	3806 Box Springs Rd. NW P.O. Box 1100 Medicine Hat AB T1A 7H1	(403) 527-8142 Ext. 360	(403) 528-1334	10
National Silicates Ltd.	Mr. Robert Davie	Facility Manager	P.O. Box 1980, McLeod Industrial Park Whitecourt AB T7S 1P6	(780) 778-2666	(780) 778-4885	3
Orica Canada Inc.	Mr. Paul Healy	Site Director	P.O. Box 250 Carseland AB T0J 0M0	(403) 936-2350 ext. 225	(403) 936-5966	N/A
OxyVinyls Canada Inc.	Mr. Scott Willis	Plant Manager	55418 Range Road 214 Ft. Saskatchewan AB T8L 4A4	(780) 998-8700	(780) 998-8707	63
Nova Chemicals Corporation	Mr. Earl Goodwin  Mr. Al Poole  Mr. Don Rathgerber	Community Relations  Leader, Olefins Manufacturing  Leader, PolyOlefins	P.O. Box 5006 Red Deer AB T4N 6A1	(403) 314-8493  (403) 314-8669  (403) 314-8655	(403) 314-8787	640 (+ 150 contractors)
Praxair Inc.	Mr. Kevin Sloman	Plant Manager	119 St. Highway 15 Ft. Saskatchewan AB T8L 2T1	(780) 998-2240 Ext. 2	(780) 998-0131	15
	Mr. Kevin Hawboldt	Plant Manager	Highway 597 Prentiss Road Prentiss AB TOC 1S0	(403) 885-5552	(403) 885-5612	10

**ALBERTA CHEMICALS OPERATIONS**  
*- Plant Contact Directory -*

<b>COMPANY</b>	<b>NAME</b>	<b>TITLE</b>	<b>ADDRESS</b>	<b>PHONE</b>	<b>FAX</b>	<b># OF EMPLOYEES</b>
Raylo Chemicals Inc.	Mr. Matthew Clomb	President	Pilot: 8045 – Argyll Road Edmonton AB T6C 4A9  Plant: #1021 Hayter Road Edmonton AB T6S 1A1	(780) 468-6060	(780) 468-4784	200
Shell Chemicals Canada Ltd. (Styrene)	Mr. Glenn Bucholtz	Site Manager	P.O. Bag 22 Ft. Saskatchewan AB T8L 3T2	(780) 992-3800	(780) 992-3825	150
Sterling Pulp Chemicals Ltd.	Mr. Roger Thomey	Plant Manager	P.O. Box 848 Grande Prairie AB T8V 3R5	(780) 539-2253	(780) 539-7207	23

**ALBERTA CHEMICALS OPERATIONS**  
**- Refinery Contact Directory -**

COMPANY	NAME	TITLE	ADDRESS	TELEPHONE	FAX	# OF EMPLOYEES
Husky Oil Bi-Provincial Upgrader	Mr. Roy Warnock	Manager	Lockbox 1710 Lloydminster, Sask. S9V 1M6	(306) 825-1700	(306) 825-1973	330
Imperial Oil	Mr. Dave Barrett	Refinery Manager	Hwy 16A East & 34 Street P.O. Box 1020 Edmonton AB T5J 2M1	(780) 449-8234	(780) 449-8191	400
PetroCanada	Mr. Tom Day	General Manager Refining	P.O. Box 97 Edmonton AB T5J 2G9	(780) 464-8625	(780) 449-7384	450
Shell Canada	Mr. Sam Spanglet	General Manager, Manufacturing West	P.O. Bag 23 Ft. Saskatchewan AB T8L 3T2	(780) 992-3704	(780) 992-3765	350