



**Growth
starts here....**

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To sustain people, we need fertilizer

- By the year 2025, the population of the world will be a little over 8 billion people.
- That's 100,000,000 more a year, 273,972 a day, 4,566 a minute, 76 every second!
- Unfortunately, if we were to try to feed the world without fertilizer, billions of people could starve.



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Our Nutrients

Nitrogen



Primary building block for all life

Phosphorus



Provides energy that allows plant to grow

Potassium



Protects plants and helps fight disease

Sulphur



Essential component in the healthy growth of all living things

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Organizational Structure

- We have close to 15,000 employees globally
- Agrium has three major Strategic Business Units
 - Wholesale (manufacturing)
 - Retail (marketing, sales)
 - Advanced Technologies (specialty products)
- Operations in North and South America, Europe, Africa and China

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Environmental Stewardship

- Agrium takes its Environmental Stewardship very seriously. Not only on site but the downstream use of our products.
- Agrium supports our industries 4R™ Nutrient Stewardship System.
- Promote community involvement like the “Caring for our Watersheds” program (caringforourwatersheds.com), 2011 Emerald Award winner
- We also promote science based educational programs and materials like our “Seed Survivor” program.
- We have developed and produce Environmentally Smart Nitrogen - ESN®

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Redwater Fertilizer Operations

- Redwater Fertilizer Operations (RFO) is one of 13 production facilities in North American Wholesale Manufacturing
- We occupy 372 hectares along the North Saskatchewan River and employ well over 600 people
- Each year RFO produces 1.4 million tonnes of nitrogen-based fertilizers, and 660,000 tonnes of monoammonium phosphate (MAP)

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Redwater Fertilizer Operations

- The largest integrated fertilizer producer in Canada.
- The largest corporate employer in Sturgeon County, with well over 500 employees and 100-200 contractors.
- Almost 40% of all of Agrium's Alberta employees work at the Redwater facility.
- Phosphate sales from this site account for 50% of the Canadian market and 5% of the North American market.

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Direct Economic Impacts

- Well over 500 regular employees - \$35 million/year in direct payroll and over 60% of employees live locally.
- Over \$300,000 given annually in charitable donations to over 50 local non-profit organizations and groups.
- 100-200 contractors valued at \$15 million per year.
- \$2.4 million in municipal property tax.
- \$150 million per year in natural gas costs.
- \$23 million per year in electricity.
- \$80 million per year in goods & services purchases.
- Over \$665 million invested in facilities over the last 32 years

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Redwater Phosphate Operations Emission Reductions

Sulphuric Acid Two (Installed Low Emission Catalyst)

- Installed during the September Turnaround
- Cost is \$0.8M
- Up to 28% reduction in SO₂ emissions

Sulphuric Acid One (Install Low Emission Catalyst)

- Planned for 2014 but may bring forward to 2012
- Cost is \$1.4M
- Up to 52% reduction in SO₂ emissions

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Redwater Phosphate Operations

New Contract for Phos Rock

- Contract signed with Office Chérifien des Phosphates (OCP) in Morocco to supply rock to the Redwater site.
- Contract term till 2020
- Rock will be shipped through Vancouver via a new terminal
- The phosphate rock from OCP will replace the phosphate rock currently supplied from our mine at Kapuskasing, Ontario (to be closed mid-2013)

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Redwater Nitrogen Operations Update

- Ammonia I Fire

- On April 12th, 2011 there was a fire in the Ammonia I unit during a start-up of the unit
 - The fire was under control in less than 30 minutes with the use of onsite Emergency Response Team personnel only
 - There were no physical injuries to personnel
 - Damage was confined to the equipment and building around the Synthesis Gas Compressor
 - There were no environmental nor offsite impacts, and the site worked closely with Alberta OH&S
- With a great effort from employees and our vendors and suppliers, the unit was restarted on June 13th, 2011

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Redwater Nitrogen Operations Update

- RNO Turnaround (June-July, 2011)
 - 44 Days in Duration
 - Approx \$47 Million spent
 - 386,000 manhours of work (960 contractors utilized)
 - No lost time injuries
- Environmental Improvements
 - T/A cleaning and replacements have improved efficiency in Ammonia plants (main natural gas users on plant site)
 - Piping installed for CO₂ recovery project with partner Enhance
 - Plant efficiency studies are being integrated into possible plant debottleneck and major capital upgrades being considered

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Fort Saskatchewan Operations

- **Built in 1982**
- **Operates within the City of Fort Saskatchewan**
- **Site totals 227 hectares**
- **Main area of facility is 127 hectares**
- **Operations about 20 hectares**
- **Greenbelt approx 700 metres wide separates residential area from main area of site**
- **Greenbelt occupies 99 hectares**

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Environment, Health and Safety

- **Emissions highlights include:**
 - **Zero discharge facility, all effluent is transferred to the regional wastewater treatment plant**
 - **Installed low NOx burners in the furnace in 2010 for a 1/3 reduction in NOx emissions**
- **There have been zero injuries and no significant environmental events in 2011**

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Donations of Note

- Soccer Field at the DCC
- Youth Centre at Providence Place
- Orche School Playground Restoration
- Fort Elementary School Playground
- Orche School Reading Program
- Green Hectarces
- Trees for West River Edge Park in City of Fort Sask.
- Young Scientist Conference
- Youth Camp Kitchen Restoration (Kiev)
- United Way (just under half million dollars – corporate and employee combined)

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