



QUEENSLAND ALUMINA LIMITED



# Environmental Project Summary

August 2010

Safer. Cleaner. Better.



Task Name	2008				2009				2010				2011				20		
	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>DUST</b>																			
Coal Dust Control: Train Unloading - COMPLETE																			
Coal Dust Control: Ground Level Emission Control - COMPLETE																			
Coal Dust Control: 1317/1318 Coal Transfer Point (At B/house) - COMPLETE																			
1652/1646 Alumina Transfer Point (Island A Frame) COMPLETE																			
1646/1649 Transfer Point																			
Cascade Chute Improvements																			
Gas Suspension Calciner Dust System Improvements																			
<b>ODOUR REDUCTION</b>																			
Red Mud Dam Destratification Units - COMPLETE																			
Evaporation Vents - COMPLETE	100%																		
Causticizer Tank Vents - COMPLETE	100%																		
Thermal Oxidiser Cooling Capacity Upgrade - COMPLETE																			
Thermal Oxidizer VSD Installation and Condenser Changes																			
Holding Tank Vents																			
Relief Tank																			
<b>ALKALI EMISSION REDUCTION</b>																			
Fill Tanks 1 to 2 - COMPLETE																			
Tertiary Seed Surge Tanks 1 & 2 - COMPLETE																			
Secondary Seed Surge Tanks 1 to 4 - COMPLETE	100%																		
TT Hosing Robots - COMPLETE																			
TT Hosing Concrete Arm																			
Entrainment Separators Unit 3 - COMPLETE	100%																		
Modify Blowdown Lines Digestion - COMPLETE	100%																		
Hydrate Cyclone Project - COMPLETE																			
Precipitation Pump Off Pumps																			
<b>Environmental Monitoring System</b>																			
Environmental Monitoring System - additional meters																			



# Odour Reduction

- Relief Tanks
  - Review Options
    - » Two external groups looking at options
    - » One scheme has been presented, order of magnitude costing being done.



# Dust

- Shiploading
  - Transfer Conveyors
  - Ship Loading Upgrade to Cascade Chute
    - Design complete
    - Project currently being bid.
  
- BSL transfer
  
- Dust Collector Redundancy





# Gas Suspension Calciners

- Dust emission reduction
  - Bag House Air slide replacement **Units 3 & 1 Completed, Unit 2 November**
  - Dust transport system replacement **Unit 3 Commissioned June, Unit 1 to be commissioned in September, Unit 2 November**
- Removal of all rotating equipment
- Remove significant sources of dust leaks



# GSC – Dust Emission Reduction cont'd



Safer. Cleaner. Better.



# GSC – Dust Emission Reduction cont'd



Safer. Cleaner. Better.

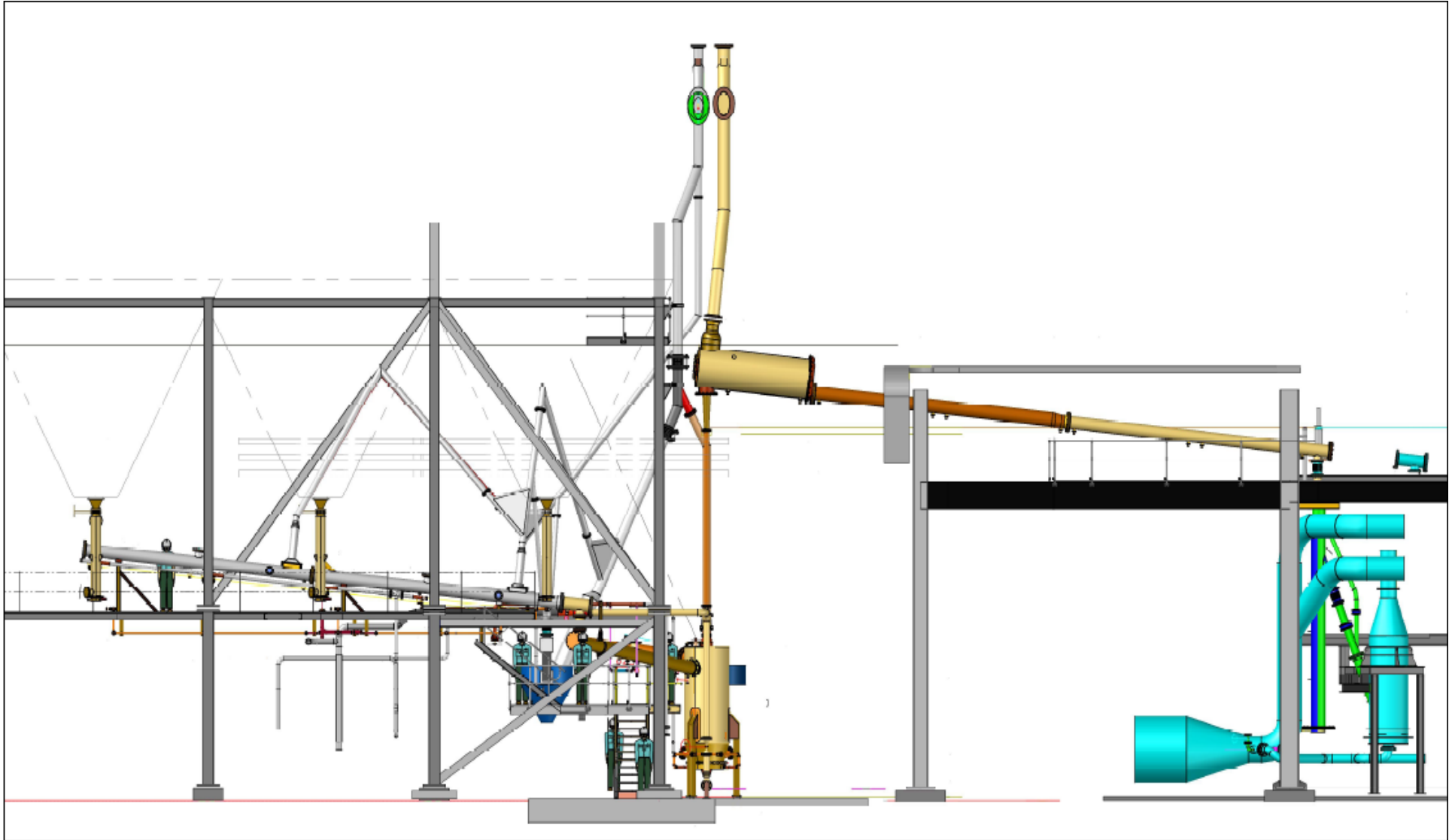


# GSC – Dust Emission Reduction cont'd





QUEENSLAND ALUMINA LIMITED



Safer. Cleaner. Better.