



taking on the world
tree planting for world environment day

alcoa anglesea

environment report

june

2007



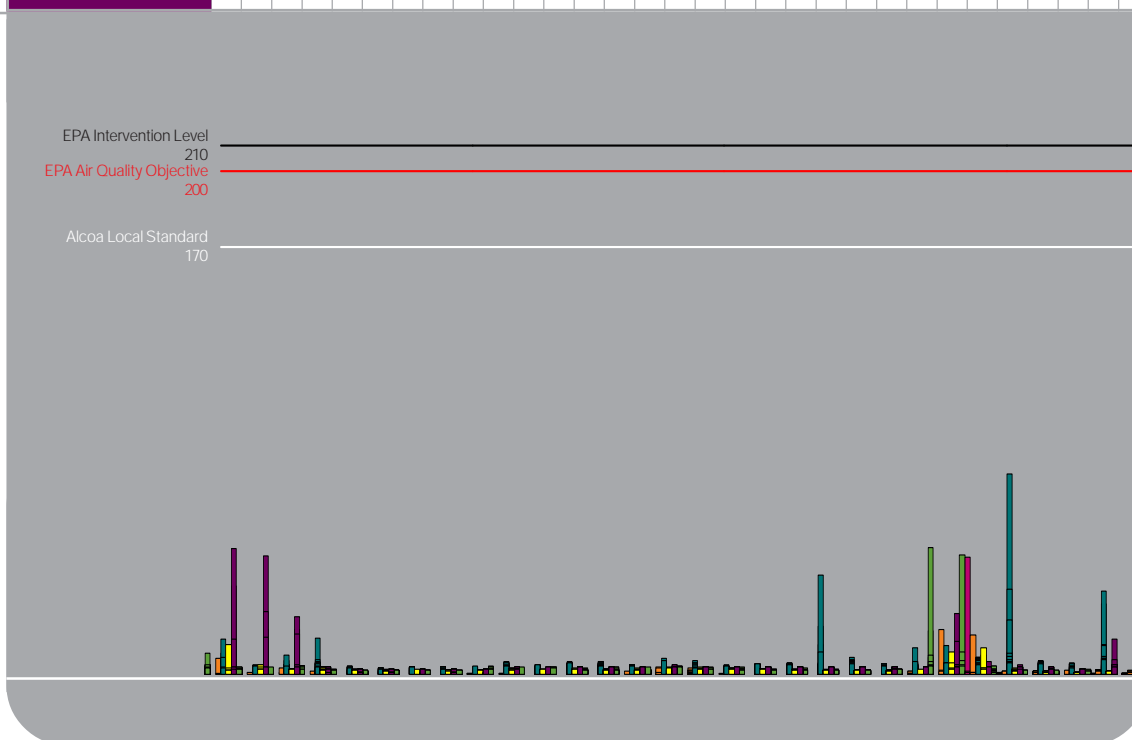
australia's aluminium

air

Air Monitoring	Average	Maximum
Stack Monitors		
Opacity g/m ³ 10-minute average	0.063	0.337
Stack SO ₂ kg/min 1-hour average Licence limit 111.34kg/min	48.08	74.75

Ambient Monitors	Average	Maximum
SO ₂ 1 hour ppb		
Community Centre	2	51
Primary School	1	47
Mt Ingoldsby	1	18
Scout Camp	4	80
Camp Wilkin	2	12
Camp Road	3	50

Ambient Monitors																														
SO ₂ Maximum 1 hour averages (ppb)																														
Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Community Centre	8	3	3	4	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	51	47	3	2	2	3	3	
Primary School	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	1	0	0	0	0	
Mt Ingoldsby	6	1	3	1	0	0	0	0	0	0	0	0	0	1	3	3	0	0	0	0	0	0	1	18	16	1	1	1	2	2
Scout Camp	14	4	8	14	3	3	3	3	3	5	4	5	5	4	6	5	4	4	5	39	7	4	11	11	7	80	5	5	33	53
Camp Wilkin	12	4	2	3	2	2	2	2	2	3	2	2	2	2	3	3	3	2	2	2	2	2	2	9	11	2	1	1	1	2
Camp Road	50	47	23	3	2	2	2	2	2	3	3	3	3	3	4	3	3	3	3	3	3	3	3	24	5	4	3	2	14	3



water



Water Storage

Barwon Water storage levels for the Geelong system at 16.5% capacity. Stage 4 restrictions apply.

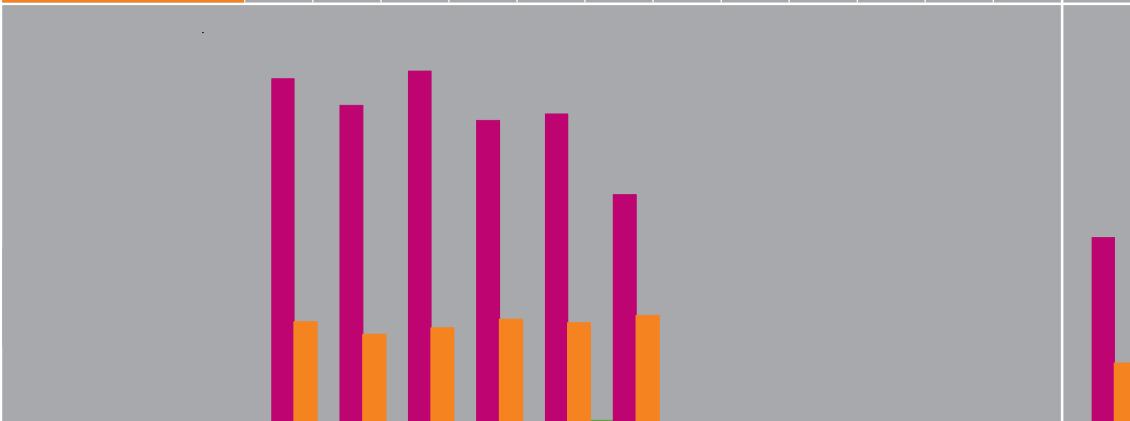
Water Discharge	June	Total
ML		
Ashponds (SP1)	140*	841
Mine (SP4)	0	0

* average value based upon data from year to date. June data not available due to equipment repair.

Water Monitoring ??/06/2007	SP1 Ashpond		SP4 Mine		SP3 Final	
	EPA limit	Lab Result	EPA limit	Lab Result	EPA limit	Lab Result
pH	4-10	8.6	3-9	-	5-9	7.6
Susp. Solids	100	3	100	-	30	< 2
Colour	50	5	50	-	50	5
Aluminium	10.00	0.23	10	-	5.500	0.052
Iron	10.00	0.45	0	-	4.00	0.17
Zinc	0.400	0.015	2.0	-	0.300	0.006

WATER WATER USAGE PER MONTH (ML)

Date	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Town Water	0.7	0.7	0.9	1.1	0.9	2.3							6.6
Bore Water	274	253	280	241	246	182							1476
Mine Water	81	71	76	83	80	86							477



world environment day



World Environment Day (WED), commemorated each year on June 5, is one of the principal vehicles through which the United Nations stimulates worldwide awareness of the environment and encourages political attention and community action.

Established by the United Nations General Assembly in 1972, WED gives a human face to environmental issues. It empowers people to become active agents of sustainable and equitable development and promotes an understanding that communities are pivotal to changing attitudes towards environmental issues.

World Environment Day is a community event with colourful activities such as street rallies, bicycle parades, green concerts, essays and poster competitions in schools, tree planting, as well as recycling and clean-up campaigns. Here at Alcoa, tree planting is certainly becoming a WED tradition.

This year Alcoa Anglesea employees and Parks Victoria Rangers again joined students from Anglesea Primary School, members of ANGAIR

and the Anglesea Green Corps crew to celebrate World Environment Day with a tree planting activity and BBQ lunch.

An estimated 500 trees were planted at the corner of Forest Road and the Great Ocean Road to rehabilitate an area degraded by poor drainage and inappropriate recreational use. As part of their co-management of the Anglesea Heath, Parks Victoria and Alcoa Anglesea devote much time to rehabilitating vegetation destroyed by off-track riding of motorbikes, 4WD vehicles and mountain bikes. Whilst these users are welcome to recreate in the heath, they are legally required to remain on the existing track network.

With recent rains, the previously dry areas were sufficiently boggy for the tree planting day with all participants receiving their fair share of mud on their boots and clothes – much to the delight of some of the Grade Six students from Anglesea Primary School!! Thanks to all participants for a really enjoyable day and we hope you also had a Happy World Environment Day!

ANIMALS OF THE ANGLESEA HEATH

SPOTTED PARDALOTE (*Pardalotus punctatus*)

- Size: 10cm
- Description: the wings, tail and head of the male are black and covered with small, distinct white spots; males have a pale eyebrow, a yellow throat and a red rump; females are similar but have less-distinct markings
- Voice: the Spotted Pardalote is a tiny bird that is most often high in a eucalypt canopy, so it is more often detected by its characteristic call; repeated three note whistle, the second two notes higher than the first
- Distribution: coastal areas of eastern and southern Australia from Cooktown, Qld to Perth, WA
- Habitat: eucalypt forests and woodlands, occurs in parks and gardens with a eucalypt canopy
- Food: forages on the foliage of trees for insects, especially psyllids (sap sucking insects) and sugary exudates from leaves and psyllids

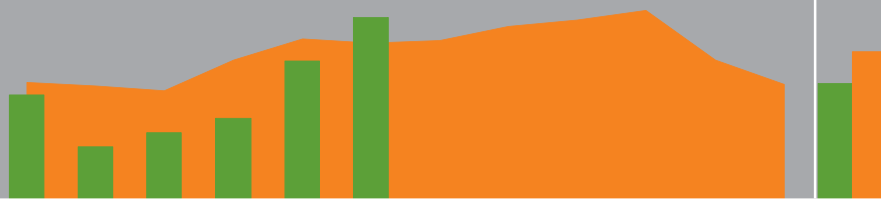
SPOTTED PARDALOTE



LAND

RAINFALL (mm)

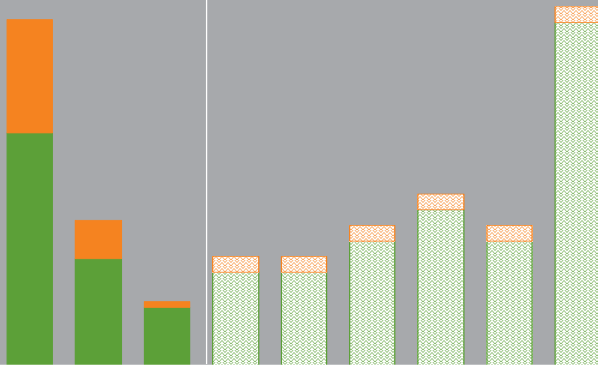
Month	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
2007 Rainfall	40.0	20.2	25.6	31.0	52.8	69.2							238.8
1968-2006 Average	44.6	43.3	41.5	53.1	61.2	59.6							303.3



WATER

TOWN WATER USE (ML)

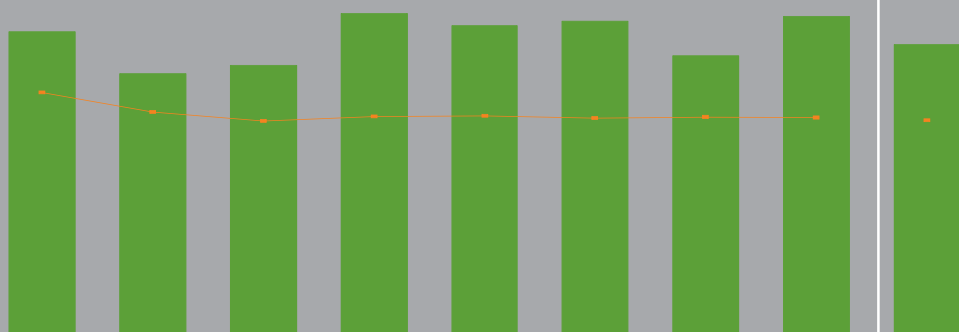
	2000	2006	2007	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Process	23.9	11.0	6.0	0.6	0.6	0.8	1.0	0.8	2.2						
Amenity	11.6	3.8	0.6	0.1	0.1	0.1	0.1	0.1	0.1						



AIR

GREENHOUSE GAS (GHG) TOTAL (Mt) & GHG EMISSION EFFICIENCY (t/MWh)

	1990	2000	2001	2002	2003	2004	2005	2006	2007
GHG Mt	1.42	1.23	1.27	1.50	1.45	1.47	1.31	1.49	1.36
◆ GHG t/MWh	1.34	1.24	1.19	1.21	1.21	1.20	1.21	1.20	1.19



environmental improvement

Environmental Management Targets	June	2007 Total	Forecast	2007 Target
Reportable Environmental Incidents	0	0	0	0
Monthly EHS ASAT Audit Completion (%)	100	100	100	90
Air Emission Targets	June	2007 Total	Forecast	2007 Target
Ambient SO ₂ (no. readings > 210ppb)	0	0	0	0
Ambient SO ₂ (no. readings > 200ppb)	0	1	2	0
Stack SO ₂ (no. hrs > 100kg/min)	0	0	0	0
SO ₂ Load Reductions (lost MWh)	5.1	3850	7700	N/A
GHG Efficiency (t CO ₂ e/MWh)	1.19	1.19	1.19	1.20
Opacity (10 min av > 0.25g/m ³ normal operation)	0	0	0	0
Water Targets	June	2007 Total	Forecast	2007 Target
Town Water (ML)	2.3	6.6	13.2	14.2
Bore Water (ML)	182	1476	2954	2667
Waste Targets	June	2007 Total	Forecast	2007 Target
Waste to Landfill (t)	0.0	0.0	0.0	9.0
Solid Prescribed Waste to Landfill (t)	0.0	0.0	0.0	0.0
Mine Rehabilitation Targets		2007 Total		2007 Target
2007 Area Cleared (ha)		2.9		3.5
2007 Area Rehabilitated (ha)		5.0		> 3.5
2005 Mine Rehabilitation Species Richness (%)		103		100

OUR ENVIRONMENT AND OUR EMPLOYEES..

David, welcome to Anglesea....or should be say farewell? What was your role for your stint down here?

I have been operating as the Maintenance coordinator working with all maintenance crews and control room shifts in scheduling and planning. It was a short term assignment from Point Henry to support the maintenance department as they prepared for the recent outages.

Looks like you enjoyed the World Environment tree planting day?

I enjoyed the tree planting with the school kids and also the adults from the different community groups. Every one had a good time making sure we planted correctly to give the plants the best chance to establish. There was certainly plenty of moisture on the day and it is good to see there have been follow up rains too.

We hope you enjoyed your stay at Anglesea too?

I have enjoyed my stay at Anglesea and that is because of the people. Anglesea represents a well balanced work force that are focused on safety, their areas of responsibility, the plant and the environment they operate in.

...DAVID EADES

