



Safety,
Health and
Environment



Performance

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INEOS Chlor

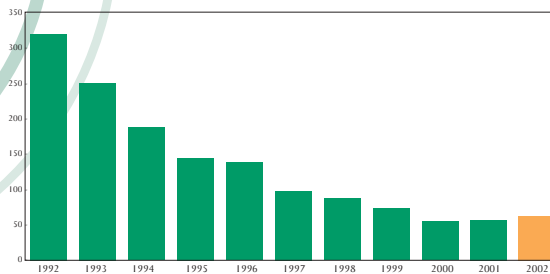
Towards Zero Injuries at Work

Minor Injuries

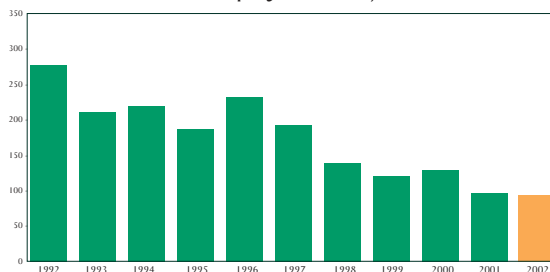
As progress towards achieving its objective of zero injuries at work, INEOS Chlor requires its employees and all who work under its control to follow a set of behavioural standards encompassed within the "SHE Standards for Manufacturing", designed to foster a culture to achieve that aim.

Progress in 2002:

Employee All Injuries



Non-Employee All Injuries

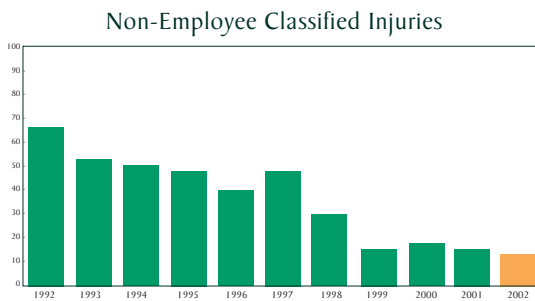
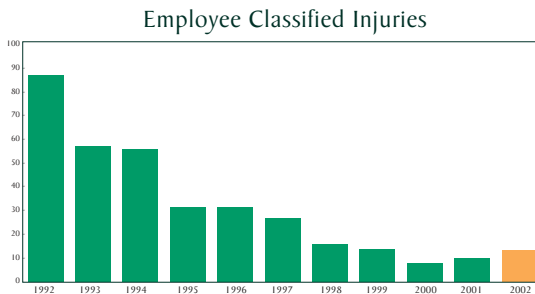


This category includes all cases of first aid treatment, however minor. The total number remains static.

Classified Injuries

As progress towards achieving its objective of zero injuries at work, INEOS Chlor will have as a target each year, both for its employees and those who work under its control, the number of injuries which require more than first-aid treatment to be at least one less than its best year, starting from a target for 2001 of 9.

Progress in 2002:



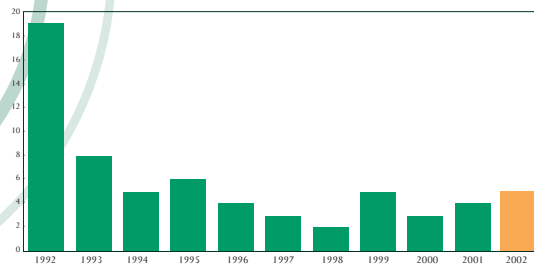
The 2002 performance for employees is higher than the control measure set for the year, and management effort has increased in the areas of most concern.

Reportable Injuries

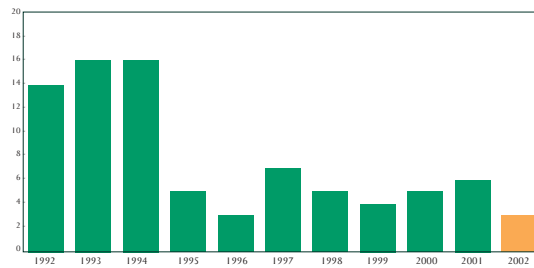
The target for INEOS Chlor is that there should be no injury at work to its employees or to those working under its control of such a serious nature that it must be reported to the statutory authorities.

Progress in 2002:

Employee Reportable Injuries



Non-Employee Reportable Injuries



The combined number remains static at a very low figure.

Towards Zero Work-Related Ill Health

Physical Agents

INEOS Chlor will put in place the necessary procedures and take the necessary actions to ensure that there are no further cases of work-related ill health due to exposure to excessive noise, vibration or radiation arising from its activities.

Progress in 2002:

- *three yearly update of noise surveys complete and hearing conservation programme initiated for those with a high exposure level*
- *work to reassess plants to tighter noise levels started.*
- *vibration assessments complete for some areas. More to be done.*
- *improved training on ionisation radiation carried out, linked to new SI.*

Stress

INEOS Chlor will work to reduce the number of its workforce who suffer from the ill health effects caused by excessive pressure at work.

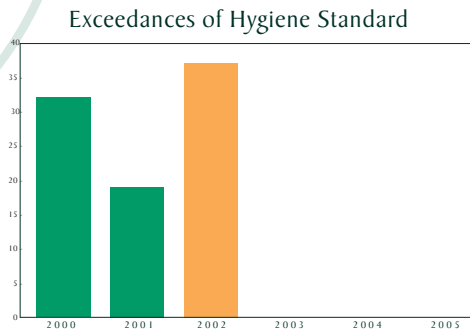
Progress in 2002:

- *earlier recognition of stress-related symptoms has reduced the ill health effects of stress.*

Exposure to Chemicals

INEOS Chlor will monitor the potential exposure of those who work on its sites to hazardous substances, fully investigate any recorded over-exposure, and take steps as are necessary to drive such occurrences towards zero.

Progress in 2002:



The number of times in a year when, following the agreed monitoring schedule, a result above the hygiene standard was measured and RPE was not being used. The increase indicated for 2002 is mainly due to revisions in the monitoring schedules, with more emphasis being placed on areas with potential problems. No ill health effects have resulted from these exceedances.

Towards Environmental Sustainability

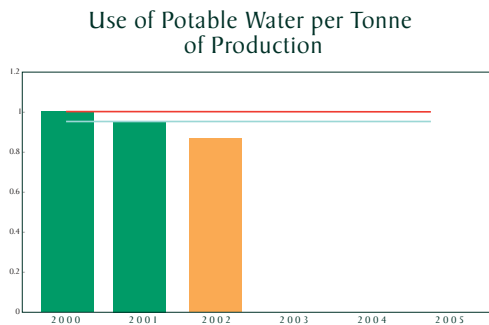
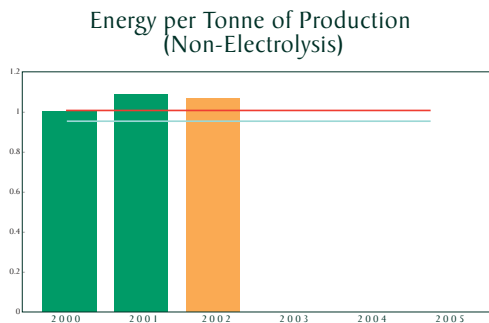
Use of Resources

By 2005 INEOS Chlor will:

- reduce its energy consumption for non-electrolysis uses by 5%
- reduce its use of potable water for production purposes by 5%

per tonne of production based on a 2000 baseline.

Progress in 2002:



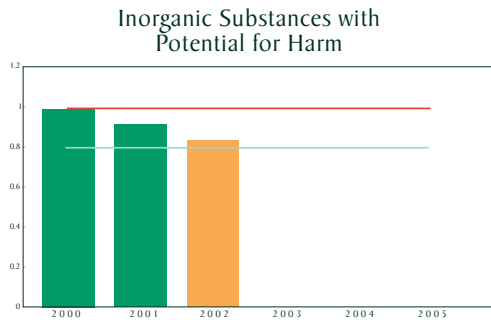
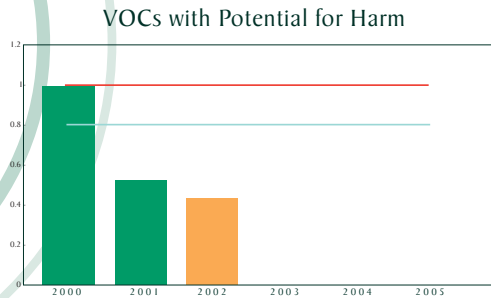
Data for Runcorn

Progress towards the targets is being made for these performance indicators.

Reduction of Releases – Environmental Burden

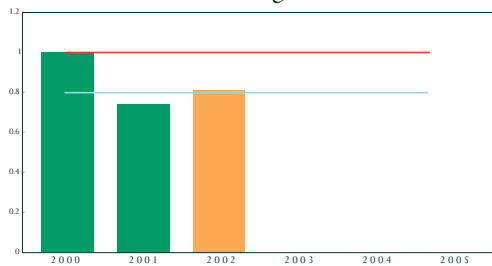
By 2005 INEOS Chlor will reduce by at least a further 20% its impact on environmental properties relating to atmosphere and water, based on a 2000 baseline.

Progress in 2002:

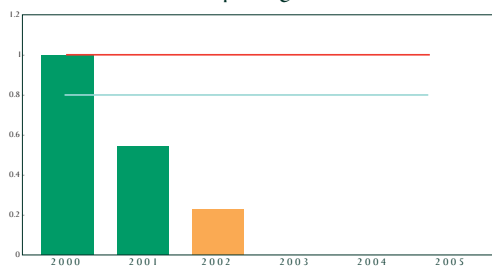


Continuing progress has been made in 2002 with the benefits of a full year operating with major abatement projects: connection of vents to the EIP plant and refrigeration packages at Chloromethanes.

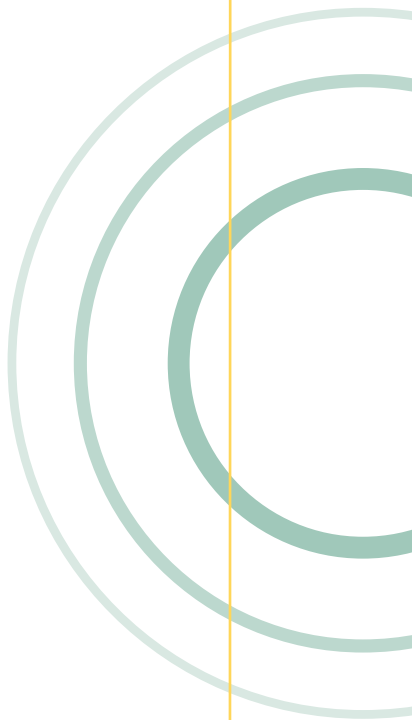
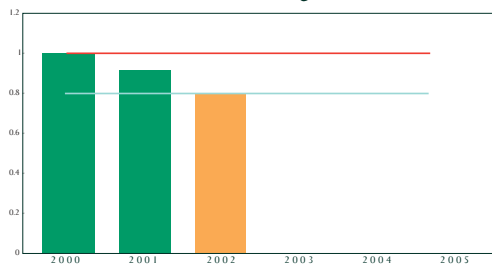
Ozone Creating Potential

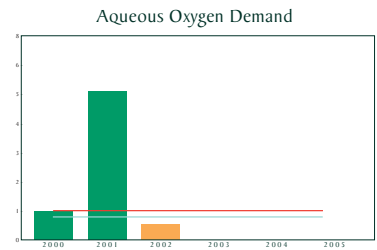
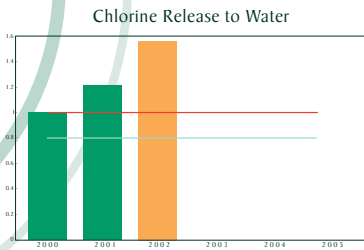
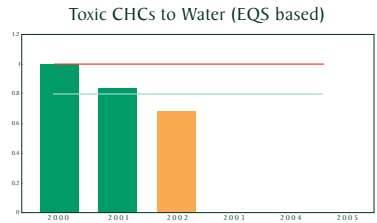
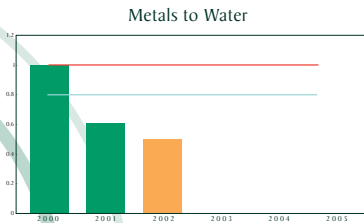


Ozone Depleting Potential



Greenhouse Warming Potential





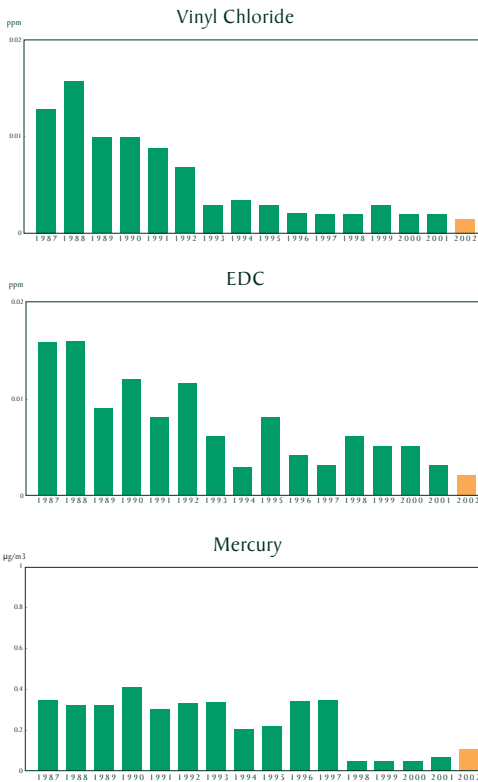
The reduction in the environmental burden of Metals to Water has been brought about by improvements to the water treatment plant at the cellrooms.

The amount of chlorine released to water is very small, and is unlikely to have an effect on the water quality of the Weston Canal. It is the result of a number of very low level discharges, and will be investigated further in 2003/2004.

Reduction of Releases – Measurement

INEOS Chlor will continue to measure the effect that its operations may be having on the environment local to its sites.

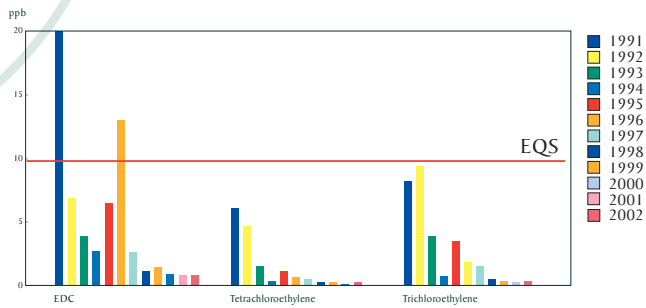
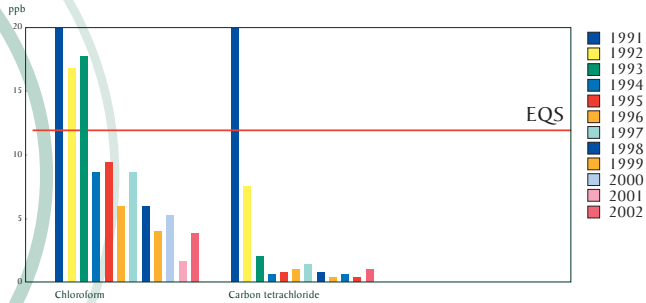
Progress in 2002:



The concentrations in the air around the Runcorn Site of these key pollutants remains very low.

The small upward trend in the mercury figures is due to an increased level of maintenance work in the chlorine cellrooms in 2002. Early indications for 2003 show a return to the 2000/2001 level.

Environment Agency (EA) data for the concentrations of key pollutants at the Environmental Quality Standard (EQS) monitoring point at Sutton Weir.

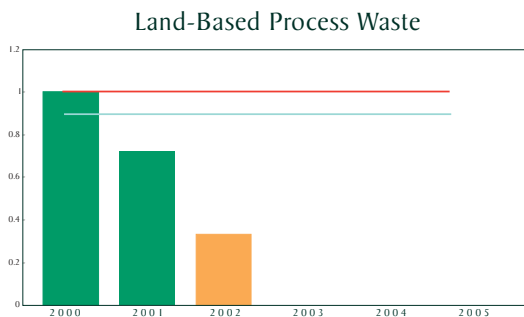


Reduction of Releases – Waste Hierarchy

INEOS Chlor will manage its waste in such a way as to minimise its impact on the environment by:

- reducing the amount of waste for disposal by 10% by 2005, based on a 2000 baseline
- reusing or recycling waste materials where practicable
- when disposal is inevitable then, where practicable
 - treating the waste before it leaves our control
 - recovering energy from the waste
 - sending the waste to landfill as a last resort.

Progress in 2002:

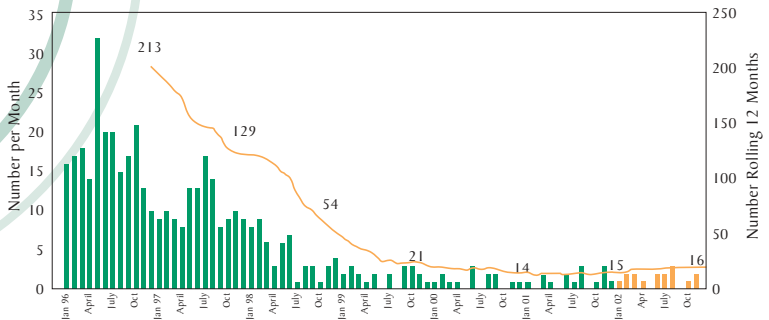


The amount of waste sent for disposal does vary considerably from year to year as construction projects on the site are carried out.

Reduction of Releases – Towards Zero Incidents

As progress towards its objective of zero environmental incidents which either have a potential impact off-site or are a breach of our permits, INEOS Chlor will have an annual target of a reduction in the number of such incidents over the previous year, starting from a target for 2001 of 15.

Progress in 2002:



The number of incidents remains low, but unfortunately we just missed our 2002 target. We have upgraded our improvement plans to get us back on track. None of the incidents have given rise to action by the regulatory authorities in 2002.

Protection of Habitats

INEOS Chlor will manage and conserve designated wildlife habitats which are located on its sites.

Progress in 2002:

INEOS Chlor has commissioned a tree conservation report from the Halton Borough Council experts, and has developed with them an on-going maintenance plan to develop wildlife habitats at Clifton Clough.

Environmental Accountability

INEOS Chlor will maintain accreditation of its EMS to the ISO 14001 standard.

INEOS Chlor will produce an annual report, available to all stakeholders, on progress towards the environmental targets.

Progress in 2002:

During 2002, accreditation to ISO 14001 was gained for CMs ECU, Power Services and Solvents Sections at Runcorn, joining Northwich operations, Bangpoo and Baleycourt.

This current presentation is the report of the 2002 performance.

