



Bluescope Steel use MP-5 to manage and report on environmental data

BlueScope Steel are a steel producing company with operations in Australia, New Zealand, Asia, Oceania and USA. In Australia they operate Port Kembla Steelworks, an integrated steel-making operation with an annual production capacity of approximately 5.3 million tonnes of crude steel. It is the largest manufacturer and supplier of flat steel in Australia.

Port Kembla has a great deal of environmental data to manage with a corresponding need to report data. In an organisation of this size the task can be laborious, and potentially error prone. Prior to the implementation of MP-5 the reporting process was a matter of data retrieval, manipulation and cutting/pasting into Microsoft Word. More recently we have enhanced the ability of Port Kembla to rapidly produce environmental reports

Each Quarter the operation produces an environmental report which contains a very large amount of data (see table) and runs to approximately 175 pages — 165 pages of which are data from monitoring or derived from monitoring. Much of this includes tables and graphs and in some cases rolling averages are calculated and compared to threshold permissible limits. This can be quite a task (see table for scope of report content).

Because MP-5 uses Crystal Reports as its reporting engine we have been able to produce a report template which populates much of the data for Port Kembla's quarterly report which a few mouse clicks saving vast amounts of time compared to how it used to be done as well as reducing errors.

Data type	Variables presented
Drainage data	Tabulated data for last quarter including — daily flow, non filterable residue, TSS, Grease and oil, cyanide, ammonia, phenol, zinc, iron, cadmium, tin, chromium, mercury, salinity. Raw data (i.e. mg/l) as well as mass loadings (i.e. mg/day together with monthly means are produced. Graphed data for last two years including —temperature, non filterable residue, pH, BOD, oil and grease, ammonia, phenol zinc, cadmium, lead, Iron, chromium cyanide, Fluoride, tin, mercury, salinity, arsenic, selenium, copper, total nitrogen and phosphorus.
Weather data	Rain gauge data including tabulated data of rainfall in mm per day over the quarter with monthly totals and daily maxima and minima Wind rose data.
Stack monitoring data	Tabulated data of temperature, velocity, flow rate, particulates, SO ₃ , particulates below 10um, NO _x , SO ₂ , CO ₂ , O ₃ , As, Cd, Pb, Mn, Ni, HCl, Cl, Cr (hexavalent), Hg and HS.
Ambient monitoring	Tabulated data including total suspended particles, Zn and Fe as 24hr average, average over quarter and max value. Raw data also presented as graph per day and compared to USEPA maximum guideline, monthly and running annual averages compared to annual average guidelines from Australian National Health and Medical Research Council Dust deposition. Tabulated data presented (Solids and speciated PAH) from various gauges. Monthly and running annual averages presented graphically and compared to EPA guidelines Benzene tabulated 24 hour average and graphical form with monthly and annual rolling averages.
Fuel use	Tabulated fuel use and sulphur content in fuel.

