



# EHS Data Newsletter Q2 2010

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## WELCOME TO THIS ISSUE OF OUR NEWSLETTER FROM MANAGING DIRECTOR PHIL ELY

Hello and welcome to our second newsletter of 2010.

Another busy quarter for us with new customers in Australia, USA and Canada. A sale of our system to a Rio Tinto site in Canada was particularly pleasing since Rio were the last of the large mining companies to select our software.

Elsewhere this last few months, we have had a few other new developments. We have had staff on either side of the planet in May when we visited Australia and attended a conference and trade show in Sweden. As you will see we have also launched a new

website this quarter which we have been working on since Christmas. We also now have an agent in India and we hope to have new customers soon in that country as a consequence.

With agents in mind we are also seeking agents in Australia which has been an excellent market for us in recent years. So if you know of anyone who may have interest in this then please do let me know (contact details in the side bar).

The only sad point in all of this has been England's recent poor performance at the World Cup in South Afri-



ca! Everybody tells me 'better luck next time'

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## MP-5 NOW AT THE END OF THE ICE ROAD IN NORTHERN CANADA

## RIO TINTO

Rio Tinto are a global mining company based on five principal products; aluminium, copper, energy, iron ore and diamonds and minerals with operations across then world. Diavik Diamond's, one of Rio Tinto's mining operations, in Canada's Northwest Territories adopted MP5 for management of its environmental data in May 2010.

The mine operates in one of the most untouched and ecologically sensitive environments in the world. A vast tundra surrounds the mine and is home to bears, wolverine and migrating caribou. The waters of Lac de Gras are teaming with fish and bird life.

Because of its remote loca-

tion, the logistics of supply of raw materials to the site is troublesome. During winter the company, together with De Beers and BHP Billiton Diamonds, capitalises on the cold weather and constructs the famous 'Ice Road Truckers' road north of Yellowknife. The road is also shared by many users from exploration companies, tourists (!) and aboriginal hunters in the region. The road is only



open for eight to nine weeks each year, from February to the beginning of April and it must be constructed each year to service the mines.

... more about Diavik Diamond mines use of MP5 in future issue.

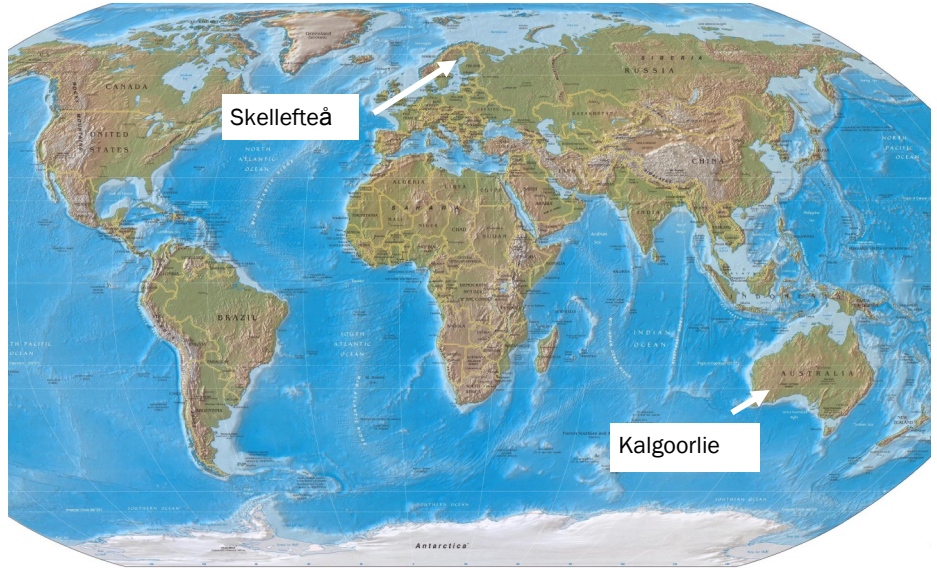
## *EHS DATA ATTEND TRADE FAIRS AND CONFERENCES IN AUSTRALIA AND SWEDEN.*

During June EHS Data attended trade fairs and exhibitions in southern and northern hemispheres.

In Australia we have a large number of clients in the mining industry and were invited to attend the Goldfields Environmental Management Group meeting held in Kalgoorlie, Western Australia. During the meeting we presented a paper entitled 'Monitoring databases: our experiences over the last 15 years and trends for the future'. This is summarised elsewhere in this newsletter and discusses the changes in emphases over the years from simple compliance monitoring towards sustainability management, greenhouse gas management, key performance indicator (KPI) management and pollution inventories.

We also participated in the trade fair and had the opportunity to meet a large number of clients and to make contact with potential new ones.

The conference and trade fair was part of a larger visit to our customers in Australia. During the trip we also visited QER in Brisbane, Newmont's sites at Boddington and Jundee, Harmony Gold's, Mount Magnet mine, Chi-



na Minmetal's Golden Grove site, Anglo Gold Ashanti at Sunrise Dam and the Morobe mine site in Papua New Guinea..

In addition we did software installs and training for two new customers - Panoramic Resources in Western Australia and MacArthur Coal in Queensland.

Both sites are keen to use the system for the measurement of groundwater, surface water, potable water, dust deposition, weather data, topsoil quality and incidents.

During the same month we also exhibited at a trade fair in Northern Sweden at Skellefteå. Sweden is recognised as the largest iron ore producer in the EU and is one of the leading European producers of gold, silver, zinc, copper and lead. The region of Skellefteå itself contains some of the most significant ore deposits. The exhibition provided an opportunity to meet people involved in mining in northern Europe. The other interesting fact about the region is that at this time of year it never gets dark!

## *NEW EHS DATA WEB SITE LAUNCHED*

This month we would like to welcome you all to our new web site still at the same address of [www.ehsdata.com](http://www.ehsdata.com). After a number of years of the old site we felt it was time for a change. We hope the new site provide a simpler and easy-to-use route into our company and describes clearly what it is we do and for whom.

We hope the site provides a simple navigation system and an improved support section with access to new features such as video tutorials which will help you get the best out of your Monitor pro software.



As always though if you prefer to speak to a real person then feel free to contact us at the same address as before:

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## THE CHANGING REQUIREMENTS OF EHS DATA MANAGEMENT SYSTEMS

RICHARD DOYLE SUMMARISES HIS PRESENTATION RECENTLY GIVEN AT THE CONSOLIDATED GOLDFEIDS ENVIRONMENTAL MANAGEMENT GROUP MEETING, KALGOORLIE AUSTRALIA

The drivers of environmental management can be grouped into two main categories; mandatory and voluntary. In the first category are Permits to Operate and other obligations on qualifying companies under various national and local regulations (e.g. Pollution Inventories, Greenhouse gas reporting). In the second category are voluntary processes which are more related to company and industry values. These include Sustainability management programmes and the International Cyanide Code.

Over time we have seen an evolution in our customers needs from simple compliance monitoring against permit targets for example, to these other processes. Many of this has been driven by the changing values society which have led for example to companies seeking to manage, and be seen to manage, their impacts responsibly.

So what does this mean from the standpoint of data management? As time has marched on there is no question that the task of managing and reporting on numbers has increased and become more complex. Much of the issue now for companies and environmental teams doing the work has been the management of increasing volumes and it is now common to see many tens of pages of data management obligations in a clients environmental management

plan and some of our customers have an expectation of collecting many millions of data points of raw data per year.

dioxide) using fuel usage data and / or various emission factors. Data may also frequently need to be aggregated and totaled at business unit, facility, geographical

to audit which is an obligation for example under many regulatory process. This can be a particular issue when for historical data which may have

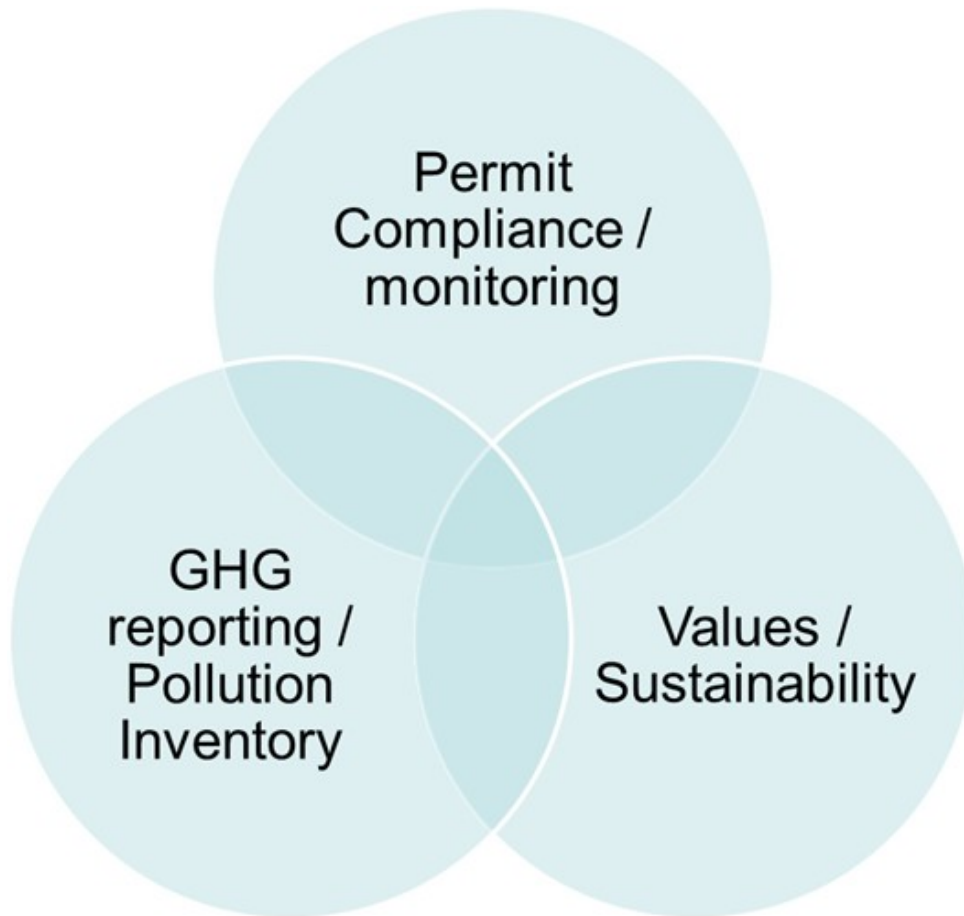
been stored in a number of different formats, naming conventions may have changed over time and the data will be subject to the idiosyncrasies of the individuals who collected it at the time.

For many people Microsoft Excel is the default data management tool and so much environmental data usually resides in this format or sometimes in homemade databases of various kinds.

From our clients viewpoint there are however innumerable benefits in using more professional data management tools –

not least the simplest of benefits coming from having all the data in the same place as opposed to spread across an organization in different Excel workbooks. We have evolved our products as closely as possible to enable the user to get the value in data rather being preoccupied with managing the numbers.

The systems can exist as a single database or how-



The changing and overlapping drivers of environmental performance among customers

The issue is worsened by the fact that in many cases the raw data is not what is required but needs to be manipulated to produce the key metric(s) of interest. In this latter case for example a permit may require data on metal loading to a receiving water course (i.e. kg/day) which needs to be produced from raw data on flow and concentration. In the context of sustainability and other reporting metrics, data also needs to be converted, for example, to material released (i.e. carbon

level or corporately.

With this volume and complexity it also of course becomes increasingly difficult to continually understand the meaning of all the data, rapidly assess whether for example you are in compliance with a target and stay on top of ever-growing reporting obligations. Further the quality of the data may come into question and it is frequently difficult to assure others of its quality and for it to stand up

## *THE CHANGING REQUIREMENTS OF EHS DATA MANAGEMENT SYSTEMS*

*RICHARD DOYLE SUMMARISES HIS PRESENTATION RECENTLY GIVEN AT THE CONSOLIDATED GOLDFIELDS ENVIRONMENTAL MANAGEMENT GROUP MEETING, KALGOORLIE AUSTRALIA (CONTD.)*

ever many the client wishes. There are also a number of features of the system which aim to help clients manage their data:

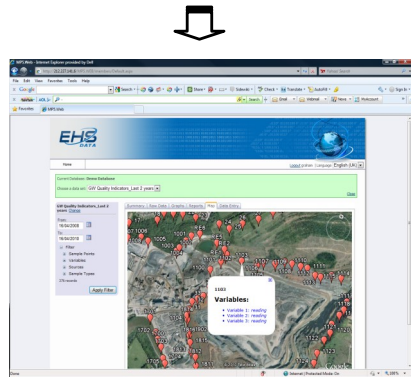
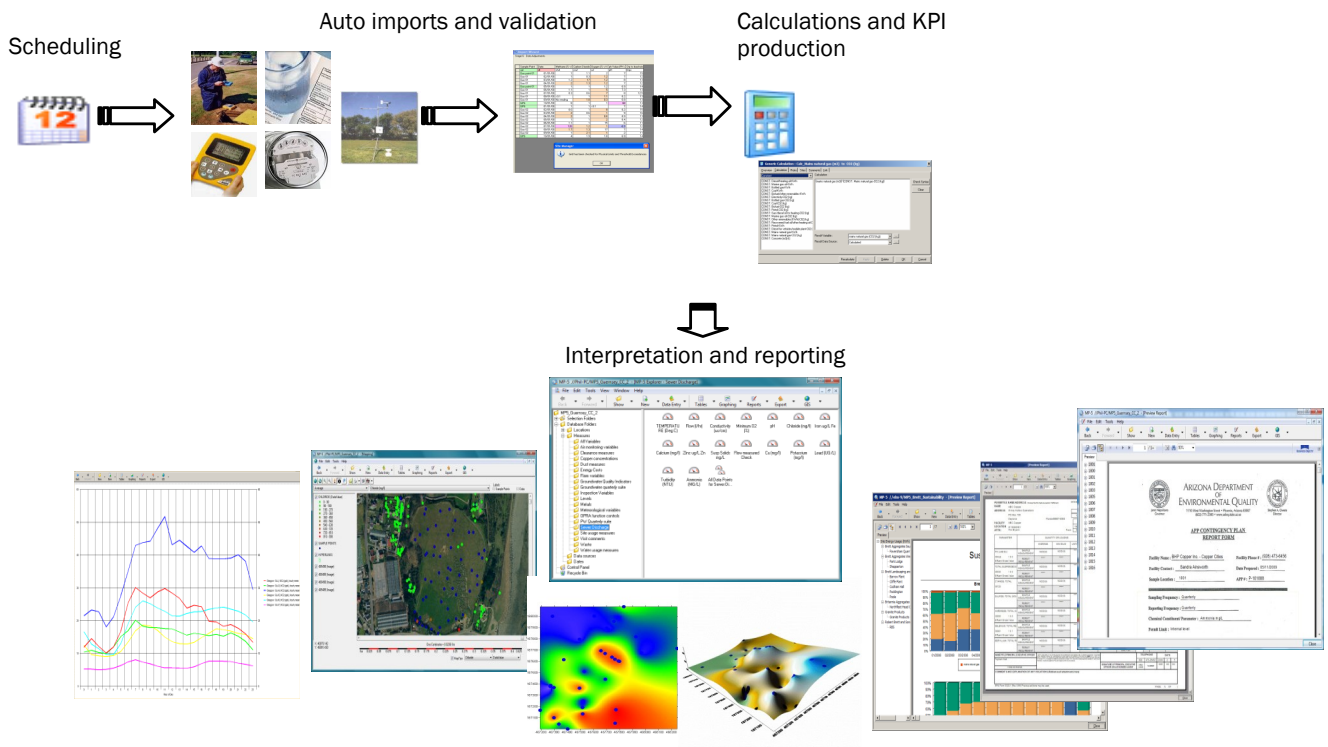
- All the data is in one place and can be accessed simultaneously by who-ever needs it.
- Monitoring schedules can be set up with e-mail warnings of missing or late data.
- Users can define thresholds for any variable together with warning levels.
- Data can be automatically imported with e-mails sent to defined individu-

als if a threshold breach occurs or if problem data is encountered.

- Threshold breaches can be managed as an incident (alongside health and safety incidents for example) with follow-up actions and close out.
- Calculated data can be created from raw data through any number of user-defined calculations.
- Data can be scrutinised in various tools (tables, graphs, GIS).
- Reports can be produced manually through export to MS Word and Excel but users can also set up

any number of templates for reports which have to be produced in the same format regularly – including different languages. Report production can then be automated or produced in few mouse clicks.

- Data can be shared through report production, export to excel or a simple web-based interface.

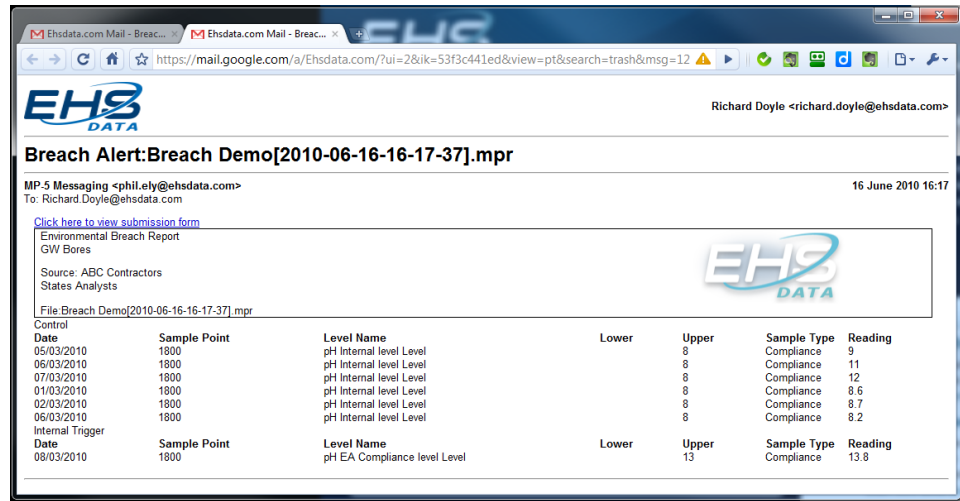


Simple access to data in graphs, tables and maps through MP5.web

## UK ENVIRONMENTAL PERMIT SCHEDULE 1/6 REPORTING TO THE UK ENVIRONMENT AGENCY NOW MANAGED THROUGH MP5.

Within the UK our software is in wide use among the landfill and waste management sector. Typically the systems are used to manage environmental information from a compliance and reporting perspective. The environmental performance of operating sites is regulated through and Environmental permit (formerly a waste management licence / pollution prevention and control permit).

Within the current permit system operators are required to report to the Environment Agency (Under Schedule 1 or 6 depending on how they are regulated) if there is a breach of a compliance threshold or if



**E—mail alert of breach from MP5 and link to Regulatory report**

an incident occurs which is likely to lead to a significant breach (e.g. failure of control equipment). MP5 has always gone a

significant way in helping clients understand whether their data is in compliance with a target or not. This is achieved through the set-

ting of compliance thresholds and e-mail alerts to communicate if breaches have occurred. We have now extended this system so that a process is set in train to prompt users, and generate the obligatory schedule 1/6 forms for the Environment Agency in the UK. At the same time as e-mail alerts are configured users can specify that they require the system to provide options for regulatory reporting in the event of certain breaches. On receipt of e-mails breaches, users can go directly to the regulatory reporting system. Users are provided with a list of breaches and can then decide if a breach is reportable or not. If any breaches are reportable the form is then generated with all relevant information ready to send to the regulator. Concurrently, the data point in MP5 is updated with a hyperlink to the incident report. Users are also able to see a list of all their breaches and the status of each breach with respect to whether it has been reported or not and what the content of the report has been.

Schedule 6 Reporting - Basic Details

**Background / Baseline Range Assessment**

Having due regard to the background/baseline or pre-operational data retained for this installation, while this Notification is submitted in accordance with the timescales set out in the installation's Permit, Viridor note that the exceedence of the specified permitted trigger(s) below lies within background/baseline concentrations at the Installation.

**Improvement Condition Programme**

Having due regard to the requirements of specified Improvement Conditions specified in the Permit (and its Variations), while this Notification is submitted in accordance with the timescales set out in the installation's Permit, Viridor note that the exceedence of the specified permitted trigger(s) below is being addressed through an existing Improvement Condition.

**Part A**

**Licence/Permit Number (\*)**

**Location of emission (\*)**

**Time and Date of the emission (\*)**

**Time and Date of the detection (\*)**

**Schedule 6 - Please select which of the following apply**

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution.

(b) Notification requirements for the breach of a limit.

(c) Notification requirements for the detection of any significant adverse environmental effect

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**Further details form for, In this case, Schedule 6 reporting. Following completion of the form it may be submitted**

Similar requirements are also statutory in other geographies and so we believe this extension to MP5 will have wide application



## LATEST NEWS:

### **Panoramic Resources purchase MP5**

Panoramic Resources is an established Western Australian nickel sulphide producer headquartered in Perth. The Company has two underground mines; the Savannah Project in the Kimberley and the Lanfranchi Project, south of Kambalda. They also retain a 60% holding of Copernicus Project open pit mine which is a satellite operation, currently on care and maintenance, near Savannah.

In May 2010 Panoramic Resources purchased 5 licences of MP5 to manage its environmental data across its two operational sites.

### **MacArthur Coal adopt MP5**

In May 2010 MacArthur Coal in Queensland Australia purchase five licences of MP5 to manage its environmental data across its two operational sites.

MacArthur Coal is the world's largest producer of low volatile pulverised injection coal used for steel making. As a supplier to the world's leading steel producers MacArthur Coal exports its product around the globe. The company operates two mines in Queensland Bowen Basin and plans to double capacity in the next five years in part through the development of the Middle Mount Mine project located 6 kilometres south west of the middle mount township in central Queensland.

### **Rio Tinto's Diavik Diamond mine adopt MP5**

We are pleased to announce that Diavik Diamond Mine, our first user from Rio Tinto, have purchased MP5 for the management of its environmental data. See more inside this issue.

### **EHS Data have presented a paper at the consolidated Goldfields Environmental Management Group (GEMG) conference in Kalgoorlie, May 19-21st 2010**

The GEMG conference was held in Kalgoorlie Western Australia in May 2010. EHS data presented a paper at the conference on how we have seen data management requirements change over time and also had a stand at the exhibition for three days.

### **EHS Data attend Euromine 2010 exhibition in Skellefteå, Sweden**

The Euromine 2010 conference and exhibition was held in Skellefteå, Northern Sweden from 8-10 June 2010. EHS Data had a stand at the trade fair and met a number of Scandinavian mining companies. See more in this newsletter.

### **MWH are now using MP5 in Arizona, USA**

Consultants working for MWH in Tempe Arizona are now using MP5 to help manage water quality data associated with BHP Billiton's Pinto Valley operation who in turn have been using MP5 since 2008.

See [www.ehsdata.com/news.aspx](http://www.ehsdata.com/news.aspx) for all of our news items

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