



EHS Data Newsletter Q1 2011

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

Welcome to our first newsletter of 2011.

As you may have spotted we ran out of time before Christmas last year and so didn't manage to do our usual Q4 Newsletter of 2010.

It's been a great last six months or so for us with new clients in North America, South America, Turkey, UK, and Africa. As a consequence we've continued our globe-trotting ways and our staff have been to the far reaches of the planet!

Due to our continued growth we have also recruited a new member of staff. Alex McBurnie joined us from WRG this April. Alex will be helping us continue to grow the business, looking after aspects of support, implementation and training. I'm



sure many of you will meet Alex in the course of our business together.

On the development side we have continued to make great strides in the development and improvement of our software, particularly in the case of our incident management system (IMS) and we're sure customers will see the benefits of the changes we have made in the second half of the year.

We are also now offering training on the use of Crystal

Reports to help our customers get the best out of the reporting system linked to MP5. We have included a few words on this in this Newsletter (page 5). Do feel free to contact us at enquiries@ehsdata.com, or at our usual phone number +44 (0) 845 388 2548 on this matter or any other where we might be able to help.

Finally I'd like to wish you all a very belated happy New Year and we look forward to working with you during 2011.

TWO MORE TURKISH MINE SITES ORDER MP5



eldorado gold

Turkey is well known for the production of industrial minerals, and it has been a prolific producer. However, due to its highly varied geology, the country has potential to host several other minerals and metals. Gold and base metal exploration and development has been on the increase supported in some cases number of foreign investors active in the country.

Mining in Turkey is governed by regulations which require mine sites to collect data on their environmental emis-

sions and performance

In 2009 El Dorado Gold's Kışladağ mine site (see <http://www.ehsdata.com/media/16663/kisladağ.pdf>) purchased MP5 to manage data associated with its environmental monitoring programme.

The site has been developed as low grade bulk tonnage open pit operation using heap leaching for gold recovery. The team need to manage a range of data including noise, dust, surface water, groundwater and weather.

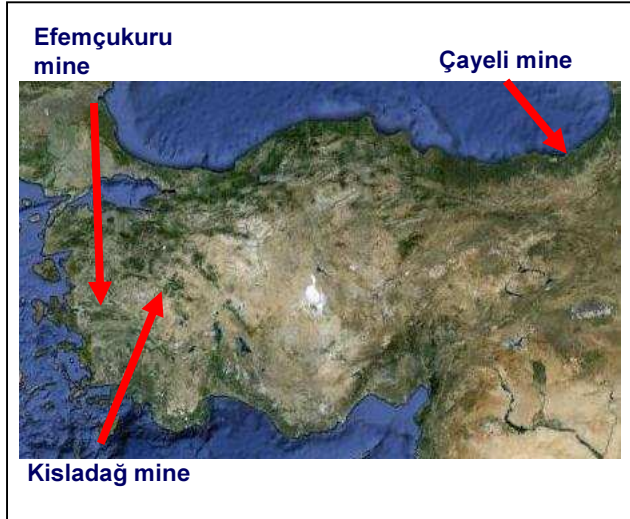
The new system replaces dozens of spreadsheets and will be used by five staff.

One of the key issues for Eldorado Gold for this implementation has been their international footprint. Most obviously this has meant a need to produce reports in different languages (Turkish and English). This has been a simple operation in the software since Kışladağ have been able to define Turkish words and their English translation with the Turkish being used in Turkish reports and vice versa. The

TWO MORE TURKISH MINE SITES ORDER MP5

MP-5 user-defined fields system was used for this. The reporting engine in the system is Crystal Reports which enables the creation of report formats in different languages and alphabets.

Perhaps less obviously is the need to cope with different number formats in data across Europe and North America, particularly since one of Kisladağ's analytical laboratories is ALS in Canada. So for example 'one hundred thousand in Europe' is 100,000 whereas in Canada it is 100.000; 'one and one tenth' in the United Kingdom and most of North America is 1.1 in Europe it is 1,1; the '12th June 2008' in Europe is 12/6/2008 in North America it is 6/12/2008. Also the Kisladağ noise meters report dates with dots (e.g. 12.06.2008). Therefore a key part of this implementation has been to configure MP-5 to automatically recog-



nise different formats, provide an audit trail for the data and report it in the correct format so as to be understandable to

readers in the different geographies.

During 2010 discussions evolved with two further Turkish mine sites; the Çayeli mine site on the Black Sea Coast of North Eastern Turkey and the Efemçukuru mine site in Western Turkey.

In the first case the Çayeli mine is owned by Inmet mining who already use MP5 for sites in USA and Canada (see Newsletter Q1 2010). The operation at Çayeli is an underground copper zinc mine and collects and reports on data for local water courses (e.g. metals, sulphate, pH, oxygen consumption) and flow, sea water, tailings discharges, wastewater quality, rainfall and noise and vibration from blasting. All the data to this point has been managed in MS Excel.

Efemçukuru mine is a sister mine of Kisladağ and is still in construction with production forecast to begin in Q2 of 2011. The project is a high grade epithermal gold vein deposit, suited for underground mechanized mining. Ore will be processed through a milling and flotation concentrate circuit on site. Flotation concentrate will be transported to the Kisladağ mine

EHS DATA WORKING WITH PROVIDERS OF HAND-HELD FIELD DATA CAPTURE DEVICES

EHS Data have been busy working with potential providers of mobile devices (PDAs) for streamlining of onsite data capture.

Are the days of the field note book numbered? Well we think they are certainly under threat, from a few clever handheld devices and incorporated software solutions.

Over the years we have evolved our data management systems to make the process of data import as straightforward as possible. Data import has for many years been an automated and quality checking process where large amounts of data from labs, data loggers and field readings are imported with users receiving e-mail notification of any problems arising. User experiences such as those of Pako Manrique at Minera Alumbra are common "Yesterday night I imported an amazing amount of records with MP5. In several cases files of almost 50,000 records without a problem." Pako once told us. Recently EHS Data have been talking to providers of devices and software aimed at streamlining field data collec-

tion processes, which, when coupled with MP-5, provide an end to end paperless solution.



Enidata:

Enital, a client of EHS Data for a number of years, and a company with a strong track record of providing environmental monitoring solutions in the UK, have developed a PDA for onsite data capture. It includes a number of strong features based around live QA/QC and traceability of the data col-

lected. More information can be obtained from the Enital website <http://www.enital.co.uk/services/21-enidata.html>.

Trimble/KOREC:

Trimble has a long track record in mobile device manufacture around the world. We have been speaking to Trimble and KOREC in the UK to provide a seamless solution with MP-5. Jobs from MP5's Monitoring Scheduler can be sent to the device notifying the technician where to go and what they need to do. Data can then be uploaded back straight to MP-5.

In the coming year we look to continue discussions and anyone interested should contact Matt matt.silk@ehsdata.com for further information on how we could integrate a solution with your current Monitor Pro system.

QIT MADAGASCAR MINERALS ORDER MP5



QIT Madagascar Minerals (QMM) is a company owned by Rio Tinto Iron and Titanium (RTIT) and has, together with the Madagascar Government, created a mining operation on the tropical island of Madagascar, which lies in the Indian Ocean off the coast of South Africa.

Following exploration in the late 1980's and a great deal of infrastructure development, the mine came into operation in December 2008 and recovers the ilmanite mineral from coastal dunes and dredging operations. The material, after primary purification on site, is sent to QIT's smelting complex in Canada



QMM's floating dredge and plant

which then produces a 90% pure titanium dioxide slag for use in the paint and pigment industry and in the produc-

tion of titanium metal. As part of QMM's detailed environmental management plan the company monitors and manages a whole series of environmental impacts and data is collected on meteorology (e.g. rainfall, temperature, pressure, wind speed), surface water, mine effluent, groundwater, air quality, noise, waste and inspections. Prior to the use of MP5 this data was collected and managed in a large number of disparate MS Access databases and Excel spreadsheets.

In November 2010, QMM ordered, and have operational, 5 MP5 client licences and a number of MP5 Web licences to manage this data across their operation.

VEOLIA USE MP5 TO EASE INTERNAL REPORTING REQUIREMENTS



Veolia Environmental Services has been present in the United Kingdom since 1990. EHS Data's involvement with Veolia stretches over many years through Leigh Environmental who then became Onyx—today part of Veolia. At the time the company operated landfills in the North and West Midlands of the UK. More recently, Veolia Environmental Services Ltd. have purchased MP5 for the management of data across twenty sites in the south of England including landfills and waste transfer stations. The data managed in the system includes leachate, groundwater and gas.

One of Veolia's reporting requirements has been to assess landfill leachate levels against targets. These are reported in tabular form monthly showing the level at each location and colour coded red if non-compliant and green if compliant. The same data is then reported in graphical form showing percentage complaint and non-compliant by month. In addition individual graphs are shown of actual levels.

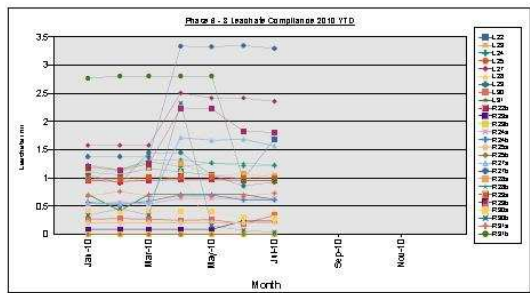
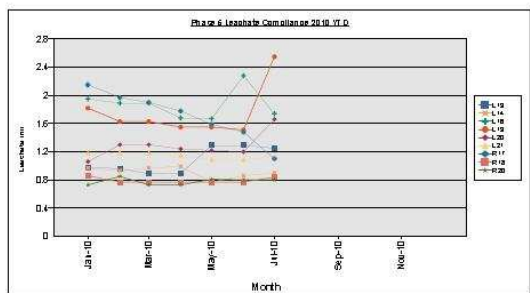
Within MP5 we have now mimicked

the same report so that the data can be produced as a Crystal report via a few mouse-clicks as opposed to cutting and pasting in Excel which was previ-

ously the case. We believe this new report will save the client large amounts of time in reporting landfill leachate compliance.

SGLAL WALLS/01/10		BT E Veolia Leachate (m) Compliance					
MS Compliance	TS	Jan	Feb	Mar	Apr	May	Jun
Compliant	72						
Total Value	204						

Thermal 0	Jan	Feb	Mar	Apr	May	Jun
L-2	0.88	0.96	0.88	0.88	0.88	0.88
L-3	0.87	0.83	0.87	0.88	0.77	0.88
L-4	0.87	0.83	0.87	0.88	0.77	0.88
L-5	0.87	0.83	0.87	0.88	0.77	0.88
L-6	0.87	0.83	0.87	0.88	0.77	0.88
L-7	0.87	0.83	0.87	0.88	0.77	0.88
L-8	0.87	0.83	0.87	0.88	0.77	0.88
L-9	0.87	0.83	0.87	0.88	0.77	0.88
L-10	0.87	0.83	0.87	0.88	0.77	0.88
L-11	0.87	0.83	0.87	0.88	0.77	0.88
L-12	0.87	0.83	0.87	0.88	0.77	0.88
L-13	0.87	0.83	0.87	0.88	0.77	0.88
L-14	0.87	0.83	0.87	0.88	0.77	0.88
L-15	0.87	0.83	0.87	0.88	0.77	0.88
L-16	0.87	0.83	0.87	0.88	0.77	0.88
L-17	0.87	0.83	0.87	0.88	0.77	0.88
L-18	0.87	0.83	0.87	0.88	0.77	0.88
L-19	0.87	0.83	0.87	0.88	0.77	0.88
L-20	0.87	0.83	0.87	0.88	0.77	0.88
L-21	0.87	0.83	0.87	0.88	0.77	0.88
L-22	0.87	0.83	0.87	0.88	0.77	0.88
L-23	0.87	0.83	0.87	0.88	0.77	0.88
L-24	0.87	0.83	0.87	0.88	0.77	0.88
L-25	0.87	0.83	0.87	0.88	0.77	0.88
L-26	0.87	0.83	0.87	0.88	0.77	0.88
L-27	0.87	0.83	0.87	0.88	0.77	0.88
L-28	0.87	0.83	0.87	0.88	0.77	0.88
L-29	0.87	0.83	0.87	0.88	0.77	0.88
L-30	0.87	0.83	0.87	0.88	0.77	0.88
L-31	0.87	0.83	0.87	0.88	0.77	0.88
L-32	0.87	0.83	0.87	0.88	0.77	0.88
L-33	0.87	0.83	0.87	0.88	0.77	0.88
L-34	0.87	0.83	0.87	0.88	0.77	0.88
L-35	0.87	0.83	0.87	0.88	0.77	0.88
L-36	0.87	0.83	0.87	0.88	0.77	0.88
L-37	0.87	0.83	0.87	0.88	0.77	0.88
L-38	0.87	0.83	0.87	0.88	0.77	0.88
L-39	0.87	0.83	0.87	0.88	0.77	0.88
L-40	0.87	0.83	0.87	0.88	0.77	0.88
L-41	0.87	0.83	0.87	0.88	0.77	0.88
L-42	0.87	0.83	0.87	0.88	0.77	0.88
L-43	0.87	0.83	0.87	0.88	0.77	0.88
L-44	0.87	0.83	0.87	0.88	0.77	0.88
L-45	0.87	0.83	0.87	0.88	0.77	0.88
L-46	0.87	0.83	0.87	0.88	0.77	0.88
L-47	0.87	0.83	0.87	0.88	0.77	0.88
L-48	0.87	0.83	0.87	0.88	0.77	0.88
L-49	0.87	0.83	0.87	0.88	0.77	0.88
L-50	0.87	0.83	0.87	0.88	0.77	0.88
L-51	0.87	0.83	0.87	0.88	0.77	0.88
L-52	0.87	0.83	0.87	0.88	0.77	0.88
L-53	0.87	0.83	0.87	0.88	0.77	0.88
L-54	0.87	0.83	0.87	0.88	0.77	0.88
L-55	0.87	0.83	0.87	0.88	0.77	0.88
L-56	0.87	0.83	0.87	0.88	0.77	0.88
L-57	0.87	0.83	0.87	0.88	0.77	0.88
L-58	0.87	0.83	0.87	0.88	0.77	0.88
L-59	0.87	0.83	0.87	0.88	0.77	0.88
L-60	0.87	0.83	0.87	0.88	0.77	0.88
L-61	0.87	0.83	0.87	0.88	0.77	0.88
L-62	0.87	0.83	0.87	0.88	0.77	0.88
L-63	0.87	0.83	0.87	0.88	0.77	0.88
L-64	0.87	0.83	0.87	0.88	0.77	0.88
L-65	0.87	0.83	0.87	0.88	0.77	0.88
L-66	0.87	0.83	0.87	0.88	0.77	0.88
L-67	0.87	0.83	0.87	0.88	0.77	0.88
L-68	0.87	0.83	0.87	0.88	0.77	0.88
L-69	0.87	0.83	0.87	0.88	0.77	0.88
L-70	0.87	0.83	0.87	0.88	0.77	0.88
L-71	0.87	0.83	0.87	0.88	0.77	0.88
L-72	0.87	0.83	0.87	0.88	0.77	0.88
L-73	0.87	0.83	0.87	0.88	0.77	0.88
L-74	0.87	0.83	0.87	0.88	0.77	0.88
L-75	0.87	0.83	0.87	0.88	0.77	0.88
L-76	0.87	0.83	0.87	0.88	0.77	0.88
L-77	0.87	0.83	0.87	0.88	0.77	0.88
L-78	0.87	0.83	0.87	0.88	0.77	0.88
L-79	0.87	0.83	0.87	0.88	0.77	0.88
L-80	0.87	0.83	0.87	0.88	0.77	0.88
L-81	0.87	0.83	0.87	0.88	0.77	0.88
L-82	0.87	0.83	0.87	0.88	0.77	0.88
L-83	0.87	0.83	0.87	0.88	0.77	0.88
L-84	0.87	0.83	0.87	0.88	0.77	0.88
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L-88	0.87	0.83	0.87	0.88	0.77	0.88
L-89	0.87	0.83	0.87	0.88	0.77	0.88
L-90	0.87	0.83	0.87	0.88	0.77	0.88
L-91	0.87	0.83	0.87	0.88	0.77	0.88
L-92	0.87	0.83	0.87	0.88	0.77	0.88
L-93	0.87	0.83	0.87	0.88	0.77	0.88
L-94	0.87	0.83	0.87	0.88	0.77	0.88
L-95	0.87	0.83	0.87	0.88	0.77	0.88
L-96	0.87	0.83	0.87	0.88	0.77	0.88
L-97	0.87	0.83	0.87	0.88	0.77	0.88
L-98	0.87	0.83	0.87	0.88	0.77	0.88
L-99	0.87	0.83	0.87	0.88	0.77	0.88
L-100	0.87	0.83	0.87	0.88	0.77	0.88

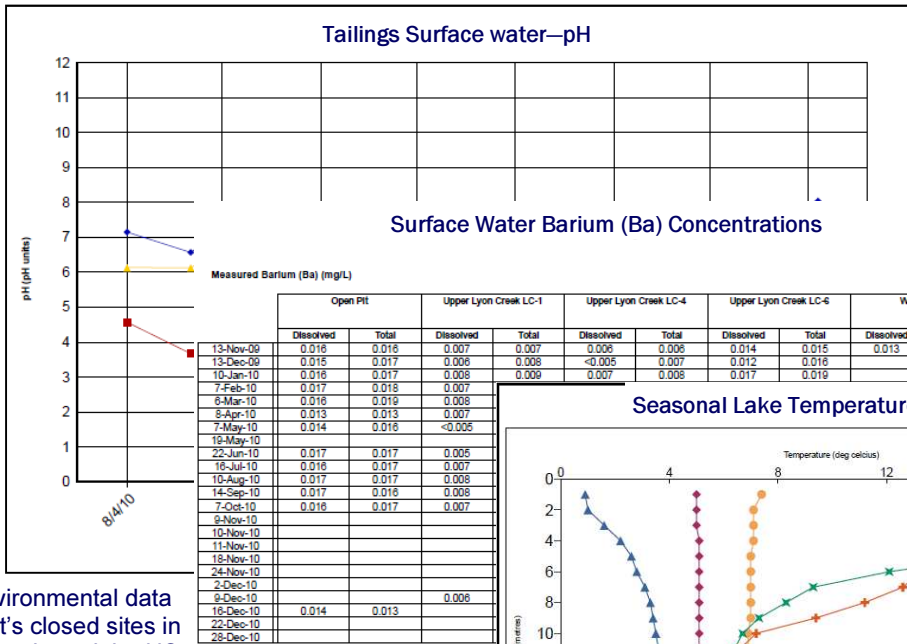


INMET MINING BROADEN USE OF MP5

In 2009 Inmet Mining in Canada adopted MP5 for the management of

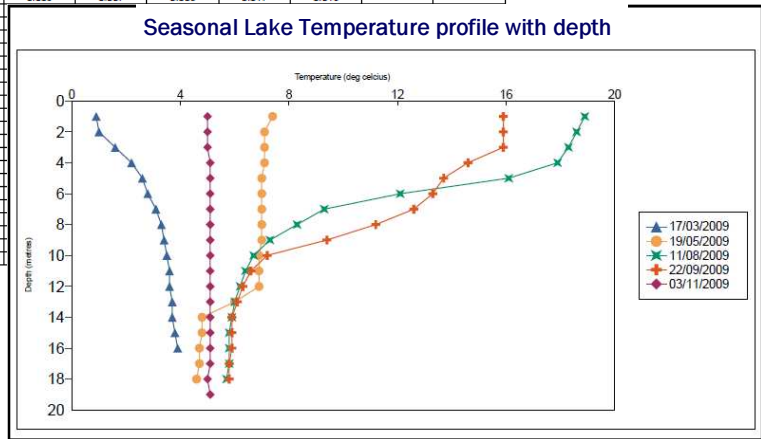
reports that need to be produced on a periodic basis can now be produced in a

their sustainability process consistent with both the Mining Association of Canada Towards Sustainable Mining Initiative (MAC TSM) and the Global Reporting Initiative (GRI). Specifically, they are seeking to manage their impacts and collect and report data on Community Interactions, Occupational Health and Safety, Consumption of Resources and Impacts on the environment. As the process of sustainability management is now



environmental data at its closed sites in Canada and the US. Since this time further Inmet sites have adopted the system in Turkey (see page 1 of this newsletter). More recently the Minera Panama Operation, a copper mine in the Colon Province of Panama, have ordered MP5 for the management of their environmental data and we are currently building their new database which will be installed this Spring. Meanwhile, back in Canada Inmet is increasing the use of the system. We have just completed a range of crystal reports which Inmet have used to complete their 2010 reporting for closed sites. This means a whole range of

couple of mouse clicks. The company have also raised their level of support to Gold. This provides a access to remote training and support for one day per month plus additional training is then available for half our normal rates. Inmet is also broadening their use of the system to cover health and safety and sustainability data. In the latter case Inmet is managing



growing at Inmet, the intention is to use MP5 to manage all their data across closed sites in Canada. More updates will be available in future newsletters. Inmet Mining's 2009 sustainability report can be downloaded at <http://www.inmetmining.com/Theme/Inmet/files/pdf/2009%20Sustainability%20Report.pdf>.



ENER-G ADOPT MP5 FOR RENEWABLE ENERGY MANAGEMENT FROM LANDFILL GAS

The software of EHS data has for many years been used widely in the waste management industry with a large numbers of waste management companies and regulators using the software for the management of environmental monitoring data. Within this context the user base includes SITA, WRG, Veolia, Grundons, Viridor and Cory (see <http://www.ehsdata.com/sectors/waste-management.aspx>) for a more complete list of waste sector clients. ENER-G works across a range of indus-

trial sectors and designs, develops operates and finances energy efficient, sustainable and renewable solutions across the globe. One of the strands of their business is in the harnessing of landfill gas which can then be utilised in a bio-gas generation facility. In the spring of 2011 ENER-G purchased 10 licenses of MP5 and 50 licenses of MP5.WEB to administer their landfill gas management operations at locations around the UK, in Spain and Poland.

Prior to installation, several years of legacy data was imported into the system, made up of over 2000 individual files and 3.8 million records. Due to the large majority of files being standard output files from the widely used Geotechnical Instruments gas analysers, the data transfer task only took a few days and meant that on install the client had a single, secure system populated with all their historical data.

EHS DATA OFFER NEW CRYSTAL REPORTS TRAINING

EHS Data software incorporates powerful Crystal Reports as part of the software package. This means that any number of reporting templates can be created so that users can comply with their regular reporting requirements within a couple of mouse clicks or schedule reports to be produced automatically.

For some time now we have been creating custom Crystal Reports for clients, to cover a broad range of requirements. Due to the scope of what can be achieved using Crystal and MP-5, reporting requests have become ever more complex as they are seen as a

way of significantly reducing reporting time. See for example the article on Bluescope Steel who now use the system to create their quarterly report which stretches to more than 160 pages (www.ehsdata.com/media/14986/ehsdata_newsletter_q1_2010.pdf).

Simple reports however can be created quite easily and therefore we have worked to simplify the process of pulling through the required fields into Crystal from MP5 and setup some Crystal training. The intention of the training is to work through a simple report template from scratch and show

clients some basic tips to create or modify their own reports.

Training can be completed via Webex at the standard rate of £95 per hour. It would be expected that within 1-2hrs you will be able to create a simple data report. We can provide you any reports created during the training and the sessions can be recorded for future use and reference.

Contact us at enquiries@ehsdata.com or by telephone at +44 (0)845 388 2458 if you require further information or to book a session.



LATEST NEWS:

EHS Data are planning a Waste Management user group meeting on the 12th of July at our offices in Newark

We are looking forward to welcoming a number of UK based clients to our offices in July for a user meeting. We have a busy day which not only includes demonstrations of new releases of MP5 and MP5.Web, but talks from a number of speakers including; Chris Dussek of Viridor talking about the Environment Agency (UK Regulator) data sharing Portal, Chris Cronin of FTC talking about their Gas Model, a talk on how Viridor implemented MP-IMS and how MP5 has been used at Brett for sustainability data management. Places are available, please contact Matt (matt.silk@ehsdata.com) for details.

EHS Data consolidate their position as leading supplier of Environmental data management software in UK Waste Management industry

We are pleased to announce that we have gained a further significant client to strengthen our position of the leading supplier of environmental data management software to the waste management industry in the UK. In the spring of 2011 SITA adopted MP5 for the management of all their landfill data across the UK. EHS Data now has a very significant customer base among waste management and landfill companies in the UK including Viridor, WRG, Veolia, Grundon, Cory, Brett, Greenstar, Premier Waste and Lafarge.

Business trips completed

Recent business trips have included visits to North America (BHP Billiton, Rio Tinto Diavik Diamonds, Inmet Mining and Western Coal), Madagascar (QIT Madagascar Minerals for software install and training), Turkey (Efemçukuru mine) and number of clients in a 4 week trip to Australia.

New Gas Model for MP5

Fehily Timoney (FTC) are consulting engineers based in Cork, Eire. They have developed and deployed a gas modelling and management tool for landfill gas optimisation. The model has been designed to integrate with MP-5 and is currently being used alongside MP5 at the Authurstown landfill, Co. Kildare.

New staff member joins

As a result of our continued success we are pleased to announce the arrival of a new recruit. Alex McBurnie joined us from WRG. Alex has worked as in a variety of Environmental roles within the UK waste industry, including Environment Officer, Site Technical Manager and as Education and Recycling Officer. He has been using MP5 in his roles for over 5 years and is looking forward to meeting everyone when he starts in late April.

See www.ehsdata.com/news.aspx for all of our news items.

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