

First Draft for Comment Purposes

**PUBLIC PARTICIPATION REPORT
CITY DEEP ENVIRONMENTAL MANAGEMENT
PROGRAMME REPORT UPGRADE**



CROWN GOLD RECOVERIES (PTY) LTD

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EXECUTIVE SUMMARY

Introduction

Crown Gold Recoveries (Pty) Ltd (CGR) is a wholly owned subsidiary of DRDGold South African Operations (DRDSA). The business of the company is to re-treat sand dumps and slimes dams deposited as tailings from now defunct mines that once operated in the greater Witwatersrand area. The company currently has three operating plants, namely:

-  Crown Mines;
-  City Deep; and
-  Knights

The City Deep operation is the focus of this report. CGR has been responsible for the successful reclamation of 23 sand dumps and slimes dams, most of which have been situated around the City of Johannesburg and Ekurhuleni Metropolitan area. In the past, the company has been able to effectively reclaim dumps in close proximity to buildings and other public infrastructure in a manner which is not significantly disruptive to society. This has allowed for the removal of a source of environmental pollution, the rehabilitation of disturbed areas, and the unlocking of key urban land for development. The City Deep plant treats material from a number of slimes dams and sand dumps in the surrounding area in order to extract gold. Through the treatment of dumps in these areas, CGR has unlocked over 205 ha of land for economic development. The urban location of these dump sites makes the redevelopment of these properties highly valuable.

CGR is now in the process of upgrading its Environmental Management Programme Report (EMPR) document to meet the requirements of the Minerals and Petroleum Resources Development Act (MPRDA). This process requires that a new Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) be developed and that relevant stakeholders be informed of this upgrade process.

Digby Wells & Associates (DWA) was thus appointed to conduct a Public Participation Process (PPP) for the project in order to ensure that all Interested and Affected Parties (IAPs) were informed about the project and were given the opportunity to provide input and comments into the process.





Process and Methodology

The PPP has endeavoured to ensure that all stakeholders were given the opportunity to be involved in the project. Public participation is an important tool in the decision-making process and IAP consultation is a significant way through which to take account of local conditions and opinions. Fulfilling the basic requirements of public participation is a legislative requirement and failure to address this aspect could create significant risks to a project.

The PPP for City Deep was designed to utilise a *consultative* approach. IAPs have been actively involved in the EMPR upgrade process.

Various methodologies were implemented to meet the needs of different stakeholders. Information dissemination with stakeholders included both verbal and written notification and formal consultation.

The following activities were undertaken as part of the PPP:

-  Development of a stakeholder database;
-  Preparation and distribution of media notices, posters, background information documents;
-  Undertaking of consultative information sharing meetings; and
-  Distribution of the minutes from information sharing meetings.

Findings and conclusions

Most of the issues presented in this section were derived from meetings with stakeholders, including authorities (National, Provincial or Local), private individuals and affected community members. A number of significant issues and findings were uncovered. The most pertinent positive project impact was identified as being the continuation of existing employment and with this a few families’ lives would be enhanced. Negative impacts, such as water, dust and failure of infrastructure were of concern to stakeholders. Most concerns were raised by authorities who attended the meetings. The positive and negative environmental impacts are discussed in detail in the EIA and EMP reports.

The PPP for this project should continue throughout the Life of Mine (LoM) and all IAPs should remain involved from this stage of the project, up to and including closure.

Stakeholders should be provided with the opportunity to review all reports and to raise further comments if not satisfied that all relevant issues regarding this project have already been addressed.

Report structure

This PPP Report is structured as follows:

Section 1:	Introduction
Section 2:	Project description and background
Section 3:	Public participation process
Section 4:	Approach and methodology
Section 5:	Findings
Section 6:	Summary and conclusions
Section 7:	References

ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
BID	Background Information Document
CBO	Community Based Organisation
CGR	Crown Gold Recoveries
DALA	Department of Agriculture and Land Affairs
DME	Department of Minerals and Energy
DRDSA	DRDGold South African Operations
DWA	Digby Wells and Associates
DWAF	Department of Water and Forestry
EIA	Environmental Impact Assessment
EMP	Environmental Management Plan
EMPR	Environmental Management Programme Report
IAP2	International Association for Public Participation
IAP	Interested and Affected Party
IEM	Integrated Environmental Management
LoM	Life of Mine
MPRDA	Minerals and Petroleum Resource Development Act
NEMA	National Environmental Management Act
NGO	Non-Governmental Organisation
PPP	Public Participation Process

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1 INTRODUCTION

Crown Gold Recoveries (Pty) Ltd (CGR) is a wholly owned subsidiary of DRDGold South African Operations (DRDSA). The business of the company is to re-treat sand dumps and slimes dams deposited as tailings from now defunct mines that once operated in the greater Witwatersrand area. The company currently has three operating plants, namely:

-  Crown Mines;
-  City Deep; and
-  Knights

Error! Reference source not found. provides a regional depiction of the plants and dumps associated with City Deep and CGR as a whole. The City Deep operation is the focus of this report. The City Deep Environmental Management Programme Report (EMPR) was approved in 1986 in terms of the Minerals Act of 1991. In terms of the Mineral and Petroleum Resources Development Act (Act No. 28 of 2002) City Deep is now required to upgrade its EMPR and compile an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) in terms of the MPRDA regulations. For these purposes, Digby Wells & Associates (DWA) has been contracted to undertake the necessary social investigations. As part of this, DWA has conducted a Public Participation Process (PPP) in order to ensure that all Interested and Affected Parties (IAPs) were kept fully informed of project developments.

This report highlights the process that has been followed to date, and describes the following:

-  Background and project description;
-  PPP objectives and methodology; and
-  Issues, concerns and suggestions from IAPs.

This document serves as a supporting document to the City Deep EIA/EMP report, and has been written in accordance with the principles of Integrated Environmental Management (IEM) as well as the requirements of the National Environmental Management Act (NEMA).

Figure 1-1: CGR Owned Dumps

2 PROJECT DESCRIPTION AND BACKGORUND

2.1 Background

CGR has been responsible for the successful reclamation of 23 sand dumps and slimes dams, most of which have been situated around the City of Johannesburg and Ekurhuleni Metropolitan area. In the past, the company has been able to effectively reclaim dumps in close proximity to buildings and other public infrastructure in a manner which is not significantly disruptive to society. This has allowed for the removal of a source of environmental pollution, the rehabilitation of disturbed areas, and the unlocking of key urban land for development. CGR has developed a sophisticated dust monitoring system under the guidance of Professor Harold Annegarn. Results obtained during monitoring are communicated to IAPs on a regular basis and are made available to the public.

The City Deep plant treats material from a number of slimes dams and sand dumps in the surrounding area in order to extract gold. Through the treatment of dumps in these areas, CGR has unlocked over 205 ha of land for economic development. The urban location of these dump sites makes the redevelopment of these properties highly valuable. The City Deep residue is pumped to the Crown Plant (refer to **Error! Reference source not found.**) which is located east of the Geldenhuis interchange, West of Rosettenville Road, North of the M2 motorway and south of Regent’s Park. The City Deep plant as well as the tailings complex will likely reach closure in approximately 36 months (i.e. in 2009), at which point the site will be decommissioned and rehabilitated to an environmentally acceptable condition. The following dumps currently form part of the City Deep operation. The table also provides a description of the suburbs and residential areas that are affected by each dump:

Table 2-1: CGR Owned Dumps Currently Within the City Deep Area of Operation

Dump No.	Status	Affected location
3/L/40	Not viable	Heidelberg Road & N17
3/L/42	Not viable	Wemmer Pan, Heidelberg Road
3/L/43	Not viable	Wemmer Pan, Heidelberg Road
3/L/44	Not viable	Wemmer Pan, Heidelberg Road
4/L/2	Not viable	M2, Rosherville lake area
4/L/3	Not viable	Heidelberg Road & N17
4/L/4	Not viable	Heidelberg Road & N17
4/L/6	Not viable	N12, Rand Airport
4/A/8	Mined & rehabilitated	Houer Street
3/L/45	In process of being mined	City Deep
3/L/17	In process of being mined	M1 & Selby Extensions
3/A/19 (Mennels)	In process of being mined	M2 Highway
4/L/1	In process of being mined	Rosherville area
4/A/9	In process of being mined	Heriotdale
4/L/25		
4/A/11	In process of being mined	M2 Highway & Eastern Bypass

Figure 2-1: CGR Tailings Facility

3 PUBLIC PARTICIPATION PROCESS

CGR views public participation as an important tool in the decision-making process. The interested or affected public are the only meaningful way through which to explore locally relevant conditions and dynamics. The result of an effective PPP would be enhanced and shared project benefits, an understanding of key IAP issues, and the generation of creative new alternatives and solutions to any identified challenges.

Fulfilling the basic requirements of public participation is a legislative requirement and failure to address this aspect could create significant risks to the project. Often, a lack of support for, or acceptance of a project can be traced back to poor communication with, and involvement of affected parties who then feel the need, in principle, to comment on or object to a development. This may create an adverse environment for the proposed project that may be the legacy on which the life of the project is then based.

This section describes the mechanisms that have been implemented to facilitate consultation with IAPs. This consultation aimed to uncover pertinent issues and concerns and to establish a long-term and positive relationship between CGR and the City Deep stakeholders.

The communication structure that has been established during this phase of the project will be maintained throughout the project life cycle until closure in approximately 2009.







3.1 Scope of this report

This report focuses on the PPP that has been undertaken and presents the issues gathered through this process. The purpose of this PPP is to gather and consolidate issues and impacts raised by IAPs and to record any further issues that may have arisen since the commencement of mining.



The requirements for such a consultation process are formally outlined and in this project the PPP adheres to the requirements of the MPRDA and the EIA Regulations (GN R 385 of 21 April 2006), promulgated in terms of the National Environmental Management Act (NEMA).

The PPP for City Deep aimed to ensure that all IAPs were given accurate and timely project information, and that all were given adequate opportunity to raise comments and concerns. City Deep also aimed to follow due process at all times and to identify IAP issues before they became problematic to the process.

Specific objectives were to:

-  Identify IAPs for the project;
-  Disseminate accurate project information to all IAPs;
-  Gather information that would contribute to the environmental investigations;
-  Demonstrate that CGR is committed to effective management of its legal obligations and environmental responsibility;
-  Form partnerships that promote constructive action between all parties;
-  Manage IAPs expectations;

City Deep Public Participation Report

-  Address potential conflicts that may arise; and
-  Record and attempt to address public concerns, issues, and suggestions.

4 APPROACH AND METHODOLOGY

Much has been written about the value of different levels of public participation what is clear is that the greater the level of public participation, particularly amongst those groups and individuals most directly affected by planned projects, the better the relationship between IAPs and the project proponent.

Table 4-1 summarises the actions of the PPP undertaken.

The following section outlines the approach taken to developing a strategy for the PPP and highlights the methodology for its implementation to date.

4.1 Approach

The PPP for City Deep has been designed to follow a *consultative* approach, where IAPs are actively involved in the EMPR upgrade process.

The approach for the PPP took the following into consideration:




-  The regulatory requirements and the need for authorisation in terms of the applicable legislation;
-  Involvement of regulatory authorities at strategic points of the study; and
-  The need for an appropriate and flexible PPP.

Figure 4-1 shows the steps that were implemented to ensure that this level of involvement was achieved.

Table 4-1: Public Participation Undertaken

AIM	MOTIVATION
Identify all relevant IAPs for the project	Involving as many IAPs as possible would facilitate good communication and capture a wide range of issues and concerns.
Distribute accurate project information	Ensure that stakeholders, particularly those directly affected by the project have information at their disposal with which to make informed comments and enable them to plan for the future, thereby reducing levels of uncertainty and anxiety. Documentation should present affected parties with information on potential impacts, risks and benefits.
Gather information that will contribute to the environmental and technical investigations	Identify issues raised by people familiar with the local environment and use these as a guide to cover any gaps in specialist investigations that still need to be undertaken.
Form partnerships to promote constructive interaction between all parties	Develop a relationship of trust between CGR and IAPs that will contribute to proactive interactions and avoid, where possible, unnecessary conflicts based on rumour and misinformation.
Address any potential conflicts that may arise	Identify structures and processes through which to deal with conflicts and grievances. This is in contrast to attempting to squash any disputes which would have long-term negative implications for the project.
Record and address public concerns, issues and suggestions	Document IAP issues so that project decisions can be traced and motivated and so that IAPs can see where their input has been incorporated into project planning. This approach addresses potential concerns that public participation may be a token gesture by the mine that meets legislative requirements but is not taken seriously.
Manage IAPs' expectations	Expectations, both positive and negative, are often out of proportion to the realities of a project. This is particularly true in areas of extreme poverty and limited development and service provision. By ensuring that expectations are kept at realistic levels (e.g. around job opportunities) the disappointment and frustration of directly affected parties is limited. Frustration and unfulfilled expectations are key triggers of conflict and require mitigation and management that might otherwise be unnecessary if avoided.
Fulfil requirements for consultation	Ensure regulatory compliance and avoid potential delays based on procedural issues rather than substantive ones.

Figure 4-1: Public Participation Process

The intention of this approach was to ensure that all IAPs would have an ample opportunity to comment on, and review public documentation.

The steps described above can be summarised into four phases of consultation, namely:





-  Identification of IAPs;
-  Project notification ;
-  IAP engagement ; and
-  IAP feedback.

Figure 4-2 illustrates the detailed public consultation process followed.

Figure 4-2: Detailed Public Participation Process

4.2 Methodology

The City Deep PPP required a combination of various methodologies to be implemented to meet the needs of different stakeholders. These methodologies will be continually evaluated and refined throughout the EIA/EMP for the life of the project. The process undertaken to date is discussed below.

The PPP served to assist in the two-way dissemination of information on the different aspects of the proposed project. It also aimed to highlight stakeholder attitudes, expectations and the need for ongoing levels of information sharing.

Information dissemination with stakeholders included both verbal and written public notification and formal consultation with the regulatory authorities concerned.

The following activities were undertaken as part of the PPP:

- ✚ Development of a stakeholder database (Appendix 1);
- ✚ Preparation and distribution of media notices, posters, background information documents; and
- ✚ The minutes from relevant information sharing meetings.

4.2.1 Stakeholder identification

The initial stakeholder identification process comprised of a site visit and a comprehensive desktop study including:

- ✚ Maps to identify residential and industrial sites in the project area;
- ✚ Reference books and internet sites;
- ✚ Title deed searches; and
- ✚ A site visit.

This phase represented the primary research phase of the PPP.

In June 2007 members of the DWA PPP team conducted a site visit with the intention of gaining a broad overview of the geographical area and identifying land uses in close proximity to the project area to assist in developing an appropriate PPP approach for the project.

Specifically, this phase involved the identification of stakeholders who would be directly or indirectly affected by the project (see Appendix 1 for the full list of IAPs).






Three IAP groups were identified including:

- ✚ Regulatory authorities, councillors and other relevant authorities;
- ✚ Other interest groups, including Non-Governmental Organisations (NGOs), Community Based Organisations (CBOs), media, environmental associations etc; and
- ✚ Affected landowners, industrial workers and residents surrounding the project area.

Regulatory Authorities

Authorities that were identified for the project consisted of national, provincial and local government bodies. Elected representatives were included in this group of stakeholders.

Some representatives identified from this group of controlling authorities consisted of:

-  Department of Minerals and Energy (DME) – Gauteng regional division;
-  Department of Water Affairs and Forestry (DWAF) – Gauteng regional division;
-  City of Johannesburg Affairs, Environmental Health Department
-  City of Johannesburg Affairs, Environmental Department; and
-  Local authorities such as ward councillors, to name a few.

The authorities were identified from existing databases, liaison with government officials, prior project experience and consultation, government databases and telephone directories.

Interested and Affected Groups

Other important IAPs included local businesses and NGOs operating in the nearby area. Community organisations were also identified in this regard.

Throughout the PPP the electronic database was updated to include the contact details of all registered stakeholders and other affected parties that were identified at meetings or information-sharing sessions. A detailed contact list of the IAPs that were consulted is contained in Appendix 1

4.2.2 Documentation developed

Various communication documents were compiled to disseminate information regarding the proposed project, public participation and information sharing meetings with stakeholders. Often a combination of media was used to ensure the greatest possibility of wide notification. The documentation developed is described below while the actual documents can be found in Appendix 2.

The various media that were used included:

Background Information Documents (BIDs) served to inform stakeholders about the proposed project, the area involved, initial issues identified by the project team and the PPP that would be followed.

Letters of Invitation invited relevant authorities and IAPs to meetings.

Registration and comments sheets were developed and dispatched to authorities, interested parties and the general public. The comments sheets gave IAPs an opportunity to register for the project and raise their concerns, issues or suggestions. Response sheets were also a method by which IAPs who were unable to attend meetings could become part of the PPP.

Notification posters advised the general public and about the proposed project and public meetings. These notices were placed in and around the project area, including road intersections and along the roads leading to these sites on 3 August 2007.

Media releases were placed in the “*The Star*” and “*The Sowetan*” and published on 3 August 2007. These advertisements notified the general public about the proposed project and the public meeting that would be held. These papers were chosen due to their wide circulation in the area.

Email, Telephone and Fax services were used where appropriate in contacting authorities, organisations and individual stakeholders. Follow-up telephone calls were made where possible to confirm attendance at meetings. Information dissemination and follow-up telephone calls were undertaken three weeks prior to the meeting until the date of the meeting.

The table in Appendix 3 presents a detailed overview of the information dissemination process used in this PPP.

4.2.3 Authorities and public meetings

One authorities’ meeting and one public information sharing meeting were held during this phase of the City Deep project.

The authorities were provided with detailed project information and were given the opportunity to comment and make suggestions. Authority issues and concerns were recorded and addressed as required, and were taken into consideration during the planning of the City Deep EMPR upgrade process.

The general public meeting aimed to identify further IAPs for the project, disseminate detailed project information, as well as to gather public issues and concerns. IAPs were notified 30 days in advance of the meeting. The meeting described the specialist studies that were being undertaken for the project, and the impacts that the City Deep operation has had to date. IAPs were provided with the opportunity to ask questions relating to the project, and to have their issues and suggestions recorded and addressed by project specialists.

No one-on-one consultations were deemed necessary during this phase of the PPP as no significant issues and concerns were uncovered.





A full set of minutes for all meetings is presented in English in Appendix 4.

The following table shows the type of meeting held, its date and location and attendance figures of the information sharing meetings:

Table 4-2: Information Sharing Meetings

IAP Group	Date of Meeting	Location	Attendees
Authorities meeting	5 September 2007	The Heritage Conference Centre, Rosherville	13
Public meeting	5 September 2007	The Heritage Conference Centre, Rosherville	7

Each meeting lasted between one to two hours and was facilitated as follows:




-  A presentation (computer projected) was given to each group (see Appendix 4 for copies of the presentation which was attached to each set of minutes distributed);
-  The presentation covered various components of the project and highlighted available project information;
-  Following the presentation, the meeting was opened to the floor for issues, concerns, questions and suggestions to be raised. Where possible, questions were addressed; and
-  The open session was minuted.

4.2.4 Dissemination of minutes

The minutes from the meetings held in September 2007 will be distributed to ensure that an accurate account of the meetings is kept and can be ratified by IAPs from each meeting. All concerns, issues and suggestions raised were documented in the minutes. The minutes from the meetings were distributed on 23 October 2007.

4.2.5 Interested and Affected Party feedback

This step will be undertaken subsequent to the completion of a draft EIA/EMP Report and PPP Report. These reports will be made available to all IAPs for review over a period of 30 days in order to ensure that the reports are publicly accessible. The reports will be displayed at the following public places from 14 November 2007:

-  Johannesburg City Library;
-  Riverlea Branch Library; and
-  Rosettenville Branch Library.

Once feedback has been received, all documentation will be finalised and submitted to the DME. A project update letter will be issued to all registered stakeholders when further details become known, or if changes to the project scope are made. Once a Record of Decision is issued with regard to the EMPR upgrade, this will also be made known to stakeholders through the required processes.

5 FINDINGS

Most of the issues presented in this section were derived from meetings with stakeholders, whether authorities (national, provincial or local), private individuals or affected community members listed in Table 5-1.

The IAPs for the project were able to identify a number of existing issues and impacts. Their responses have been recorded and will be considered throughout the project, as well as the means by which these issues have been addressed or responded to. Recommendations for mitigatory measures have been recorded in the EIA/EMP in detail.

The PPP for the City Deep project should continue throughout the Life of Mine (LoM) and all IAPs should remain involved from this stage of the project, up to and including closure.

Table 5-1: Issues, Concerns, Comments and Suggestions Raised

Reference	Name & Organisation	Issue raised	Response
1 PROJECT SPECIFIC			
Operational			
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	What process is usually followed with regard to the material that remains after the extraction of gold is complete?	The remains are transported to the existing tailings dam complex through pipe lines.
Authorities meeting	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Are the slimes in tailing dams at all re-usable and could this perhaps be dealt with in the EIA document?	There are areas where it can be used but only in very small quantities - research on the potential uses of this by-product is ongoing. These studies do not form part of the EIA process.
Authorities meeting	Beverly Turk: City of Johannesburg, Ward Councillor	Could bricks be manufactured out of the tailings dam material?	This would not be permitted due to radiation. Generally relatively high levels of Sulphur (1%) is also found in the tailings and renders the material unsuitable for brick making.
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	It was mentioned that the sludge is processed through two separate plants, where is the final product of this process deposited?	The final product is deposited on the Crown Mines tailings facility. The sludge is deposited on the tailings complex, where water is extracted and returned to the plant for re-use.
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	Is the soil on the dumps fertile?	The soil on the dumps is not at all fertile and this is the reason that CGR uses lime and fertilisers to increase soil fertility for rehabilitation purposes.
Authorities meeting	Beverly Turk: City of Johannesburg, Ward Councillor	There is currently a huge problem with the Bosmontspruit, and when it rains, the sand/slime causes water levels that can be 1m higher than is usual. This scenario also causes a problem to the West of the N1 highway. Is the Bosmont area located under the CMR mining license?	CMR's mining license is separate to these discussions but a note will be made regarding the problems experienced in the area. CGR is dealing with this and other similar issues and will investigate this problem further, but the meeting at hand will need to focus on the City Deep operations in particular.
Public meeting	Brian Dawson: EMPR Services	All environmental management issues should be addressed and management plans implemented.	Environmental issues will be addressed in the management plans implemented.
Public meeting	Andrew Barker: iProp Development Consultant	The project Hloekisa needs to be recognised and acknowledged in principle with respect to the environmental cleanup of the mining land and its contribution to urban development. It is also important that the various land and mining companies involved in the area worked closely together to ensure the coordinated cleanup of the mining land and look for opportunities for working together with respect to the realisation of this project.	Point noted.
Authorities meeting	Floris Visser: City of Johannesburg, Health Department	Why could the slimes from the tailings facilities not be put back into the defunct mines considering rehabilitation is an expensive exercise?	This issue has been considered and it is an ongoing debate.. One cubic metre of rock, which will need to be milled, is equal to two cubic metres after milling. There would not be sufficient space underground and other pollution issues would arise from depositing the slimes underground. There is also the natural closure of tunnels and

Reference	Name & Organisation	Issue raised	Response
			underground workings further reducing available space. The water placed underground should also be recovered but it is very expensive, if not practically impossible. Approximately six to seven hundred thousand tonnes of slimes is placed on the tailings facility per month. Discussions with Department of Water and Forestry are ongoing to find a way forward.
Decommissioning and closure			
Authorities meeting	Floris Visser: City of Johannesburg, Health Department	Concerned about the rehabilitation methodology that is used for the dumps and the length of time that it will take to grass the area. Enquired why this takes so long, and what can perhaps be done to speed up the process.	The process is very slow, but the rehabilitation process has been escalated. The intention of CGR is to rehabilitate approximately 15-17 hectares per year. CGR have made a formal application to be exempt for using alien species such as pampas grass, as this grows well on the dumps. Further investigations are being undertaken into methodologies for speeding up the process of rehabilitation and vegetating the dumps with various other plant species.
Authorities meeting	Floris Visser: City of Johannesburg, Health Department	The suppliers of water are very expensive - can CGR perhaps investigate other forms of irrigation for the vegetation on the dumps?	Water is one of the main problems. Vegetating on the mine dump slopes is difficult due to erosion and the vegetation being used as a dust mitigation measure. Point noted for further consideration.
Authorities meeting	Douglas Wood: City of Johannesburg, Environmental Health Department	Rehabilitated areas are generally not suitable for construction purposes. The local metropolitan council currently plans to construct low cost housing on the portions of rehabilitated ground.	Depending on the ground conditions, construction (industrial, commercial etc) can in fact be undertaken on rehabilitated sites, e.g. Gold Reef City. However, no residential units may normally be constructed in these areas. Hazards such as acidic soil, radiation from the soil, etc could manifest themselves and generally precludes the erection of dwellings. Samples of the soil can be taken to analyse and see if results show the viability to construct on a rehabilitated area.
Public meeting	Brian Dawson: EMPR Services	When will the reclamation of the Mennels dump be completed?	The intention is that operations will be completed by the year 2009. This 36 month period may, however, be extended.
Public meeting	Brian Dawson: EMPR Services	Would there be a tapering off of activities towards closure, and if so, is this based on the price of gold.	There will be a tapering off period of approximately 12 months – this estimate is based on the City Deep reserves.
2 BIOPHYSICAL IMPACTS			
Surface and ground water			
Authorities meeting	Floris Visser: City of Johannesburg, Health Department	Water supplies are very expensive in terms of irrigating vegetation on the dumps - the whole area must be suitably rehabilitated in order to reduce the dust impact on the surrounding region.	Point noted. The vegetation issue will be accelerated. Legislation sometimes also contributes to delays in the process with issues regarding particularly the use of alien plant species.

Reference	Name & Organisation	Issue raised	Response
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	Is there a way for cyanide and heavy metals to be taken out of water as this causes pollution issues when left in dams?	<p>This has been a long term issue arising out of the legacy of mining in the Johannesburg area. Generally, this situation is controlled by the DWAF, and long-term processes are being considered to find ways of removing substances such as cyanide and any other heavy metals in water. Cyanide has a limited short term impact and does not persist in the environment.</p> <p>The majority of such issues are due to the lack of control of 20 or 30 years ago, there has been poor management of mining regulations.</p>
Authorities meeting	Lizette van Zyl: City of Johannesburg, Health Department	How will water seeping into the ground water system be controlled? The polluted water has a yellowish substance - is this cyanide which can be a very poisonous?	It is unlikely to be cyanide. Generally Cyanide will result in a blue precipitate when it contacts acid run off from old disused slimes dams.. The yellowish substance that is referred to is most likely an iron related substance .
Authorities meeting	Lizette van Zyl: City of Johannesburg, Health Department	Is there any system in place for the monitoring of polluted water?	There is a monitoring system which involves regular inspections. CGR also participates in Water Forums around the Johannesburg area. LK can provide all of the information about the forums as well as any information concerning water monitoring issues.
Authorities meeting	Samukelisiwe Mdlasose: City of Johannesburg, Environmental Department	What mitigation measures are in place for water monitoring, and how often this monitoring takes place?	CGR has identified 54 areas for in-stream, up-stream and down-stream monitoring. Water monitoring is done regularly and the process is operating very well. Results are provided to DWAF.
Authorities meeting	Lizette van Zyl: City of Johannesburg, Health Department	There is an area near the N17 highway where the level of ground water is very high. How will this be affected during the rainy season?	<p>The first phase of the geohydrological investigations has already been undertaken as part of the water monitoring system.</p> <p>Some ground water is very high even in winter. In the deeper aquifer, the water is approximately 900m below surface in the central mining basin.</p>
Fauna and Flora			
Authorities meeting	Samukelisiwe Mdlasose: City of Johannesburg, Environmental Department	Has CGR considered planting trees as part of rehabilitation instead of focusing only on grass?	The company had considered this, especially with regard to Bluegums which grow easily on the dumps. CGR has also considered planting indigenous plants, which the company has found do not grow as well as the alien Bluegums and pampas grasses. CGR has applied to the Department of Agriculture and Land Affairs (DALA), to approve the planting of trees with a height of no more than 2-3m on the last lift of the tailings dams. The company must conduct further research to see if there are other Bluegum species that are suitable. Another issue to consider is that the blue gum is often chopped down by nearby residents for the purpose of making fires.
Authorities meeting	Samukelisiwe Mdlasose: City of Johannesburg, Environmental Department	Instead of concentrating only on alien plants for rehabilitation, perhaps research on other indigenous species, and the usage of correct compost and chemicals of indigenous plants could be considered.	Suggestion noted for the record. For the past 10 years, CGR has undertaken investigations, which are still ongoing, and realised that indigenous plants grow extremely slowly on the dumps. Bluegum trees seem to be the only trees that grow quickly, but the height of 4-5m is unacceptable according to the DALA regulations.

Reference	Name & Organisation	Issue raised	Response
Air Quality			
Authorities meeting	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	What measures are taken to alleviate dust pollution problems? What mechanisms are used for this problem, and how often is sampling undertaken?	Dust is monitored on a monthly basis. CGR is known to have one of the best monitoring programs. Dust buckets are normally used before and after the commencement of each operation.
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	With reference to dust suppression techniques, what are CGR's intentions for the upcoming 2010 World Cup, especially with regard to the FNB Stadium?	CGR is fully aware of these challenges and is currently working towards finding alternative methods to ensure that this event it not badly affected.
3 SOCIAL IMPACTS			
Social Responsibility			
Authorities meeting	Beverly Turk. City of Johannesburg, Ward Councillor	A full Social and Labour Plan must be compiled for the company's City Deep operations. The directly affected ward's residents should be given preference for job opportunities at the operations.	Every South African citizen is entitled to a job, housing etc. according to the country's policies. CGR has a full Black Economic Empowerment (BEE) policy in place. With existing mine operations and skilled employees, CGR will not employ any additional people and most employees that have been sourced were drawn from the local area surrounding the operations..
Public meeting	Andrew Barker: iProp Development Consultant	Have discussions been initiated with the City of Johannesburg with respect to the integration of the Social and Labour Plan into the City of Johannesburg IDP?	Point noted. CGR is aware that this is an important legislative requirement which they would adhere to. One consultation with the IDP manager at the City of Johannesburg has been undertaken, further consultation is still ongoing.
Public meeting	Andrew Barker: iProp Development Consultant	The initiation of the Regional Mining Forums by the DME and the importance of participation and engagement with respect to Social and Labour Plan development and implementation are essential. For the DME, it is imperative for municipalities and the land and mining companies to coordinate and integrate investment for local social and economic development to ensure substantive contribution to sustainable human settlement.	The company's Social and Labour Plan will certainly incorporate community involvement.
Public meeting	Andrew Barker: iProp Development Consultant	iProp need the mining right owners to keep contact in with them: iProp recognised that environmental management issues are vital; Social Labour Plan should be implemented in conjunction with the Council/Metro; iProp initiated the East to West Corridor and was going to submit this document to the Council to approve or at least make them aware of its existence; The Riverlea area is mainly residential and redevelopment should be conducted in such a manner that the suburb will be rejuvenated and the final land should include functions which will attract further investment in	Points noted.

Reference	Name & Organisation	Issue raised	Response
		<p>keeping with the City of Johannesburg's Development Plans; and</p> <p>The SLP should be integrated following the legislation requirements and the approach must include the Council (City of Johannesburg). The concept and principle need to be included in the process and there must also be a capacity of giving back to the communities.</p> <p>I-Prop, as the freehold owners of the land below the reclaimed dams and sand dumps as well as surrounding land, are offering themselves as interested stakeholders and are willing to participate in the whole operations.</p>	
4 PROCESSES			
EIA			
Authorities meeting	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Do the three mines under CGR have existing EMPs and mining licences?	There are existing approved EMPs for the operations, but due to the new MPRDA regulations, a public consultation process had to be undertaken and the EMP upgraded into an EIA/EMP document. The final submission date for the updated EIA/EMP documentation is 20 December 2007.
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	Previous mines as well as the DME regularly did not include the municipality as a stakeholder in environmental issues. Expressed gratitude that they are now part of the process as this makes things easier in terms of being able to address any problems experienced by the communities.	It is important to include all the stakeholders as well as local authorities. CGR wants to build a transparent relationship with all IAPs in their operations with the assistance of the authorities. For any further information IAPs are welcome to contact the company's Environmental Manager. LK.
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department	Will a copy of the EIA/EMP be sent to the attendees when it is completed? Will there be a website containing the relevant information, and how will people living in townships would be given access to the documents?	The public will be sufficiently notified once the documents were completed. Letters will be distributed to inform people as to where the draft documents are on display for public comment. CGR as well as DWA will consider placing the documents on their respective websites.
Authorities meeting	Nic Van Deventer: City of Johannesburg, Health Department Environment	What would happen if CGR ceased to exist? Is a closure plan in place for the projects that are currently ongoing?	There is a closure plan in place, and CGR is committed to its responsibility to rehabilitate the areas that it disturbs. The company would have to apply to the DME for a Closure Certificate. The DME ensures that the necessary trust funds are available and the disturbed areas will have to be completely rehabilitated before a Closure Certificate can be obtained. CGR will be on track with this process by the year 2011.
Authorities meeting	Nic Van Deventer: City of Johannesburg	The entire area was polluted with cyanide, what is the lifespan of cyanide?	Although cyanide is hazardous, it has a very short lifespan because the sun's UV rays break it up.
Authorities meeting	Nic van Deventer: City of Johannesburg	Guidelines with regard to cyanide and heavy metals should be given in the EIA/EMP documents so that the public can have an understanding of the facts relating to these substances as people perceive them to be hazardous.	Point noted for further consideration.

Reference	Name & Organisation	Issue raised	Response
Public Consultation			
Authorities meeting	Beverly Tuck: City of Johannesburg; Ward Councillor	It is very important for the City of Johannesburg to be involved in these processes, especially the councillors. The local residents often lodge their various complaints with the councillors, e.g. dust around the Heriotdale business area. The councillors are the representatives of the people and would thus like to be closely involved in CGR's operations. Knowledge enables the councillors to address the issues and concerns of the people.	The suggestion was noted.
Authorities meeting	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Informed CGR that there is a new unit of compliance officers in the City of Johannesburg Municipality. These representatives are responsible for conducting follow-ups on IAP's issues and concerns. This is the reason that this unit must have a good relationship with mining sectors so that it may easily work together with CGR and reach required environmental regulations and standards.	Commitment and transparency are vital to building an ongoing and continuous relationship.
Public meeting	Andrew Barker: iProp Development Consultants	There was a lack of direct notification and invitation to become an IAP as holders of freehold and prospecting rights in the areas. This also applied to the Crown Mines area which had been applied for previously in 2006 of which no notification was received. In view of the fact that there are overlapping rights it will be of critical importance that the involved companies worked closely together with regards to the various land and mining resources that are available.	All identified stakeholders are kept informed about the progress of the whole operation from outset to the finish. iProp's continued participation would be greatly appreciated to ensure that the operation is a success. Regular liaison meetings will be held with IProp.
Public meeting	Andrew Barker: iProp Development Consultants	Made apologies for the meeting for the Knights application that was to take place the following evening (Thursday 06 September 2007) and requested that the above issues be noted for that application also.	
5 GENERAL			
Authorities meeting	Mr Lee: iProp Limited	Who are land owners of the Mennels dump?	CGR and Grinrod are the owners of the land.

6 SUMMARY AND CONCLUSION

The PPP for the City Deep EMPR upgrade process reflected a consultative approach that aimed to enhance decision making through the inclusion of a wide variety of opinions and insight. Four phases of consultation were followed, namely: identification of IAPs; project notification; IAP engagement; and IAP feedback. IAPs were identified according to three groups – directly affected parties, authorities, and other interest groups. All of the identified IAPs received project notification through the media, as well as through information letters and posters. Meetings were held with all identified IAPs. Project feedback to IAPs will take place on an ongoing basis during the life cycle of the project, and project documentation will be made available for public review and comment.

From the PPP for City Deep, a number of pertinent issues and findings were uncovered. The most significant positive project impacts were identified as being the unlocking of urban land for redevelopment and the continuation of employment and procurement opportunities. The negative impacts that should be most closely managed are the generation of dust as well as impacts that may be associated with the tailings complex during the closure of the plant. Residual impacts, such as the visual and dust impact related to the tailings complex also need to be addressed during the planning phase of the project so that acceptable alternatives can be devised.

The PPP for City Deep will continue throughout the life of the operation. In this way, all IAPs will remain involved throughout the project process.

7 REFERENCES

International Council on Mining & Metals: *“Community Development Toolkit”* (October 2005)

International Association for Public Participation: *“IAP2 Toolkit”* (2000 – 2004)

Consultative Forum on Mining and the Environment: *“Public Participation Guidelines for Stakeholders in the Mining Industry”* (August 2002).

Appendix 1: Stakeholder Database

INTERESTED AND AFFECTED PARTIES

Name	Company/ Organisation	Job Title	Interest Group	Branch	Tel	Fax	Cell	Physical Address	Postal Address	Email
Mr Norman Fleming	AIG Glass		Business & Commerce	Johannesburg	011 621 2700					norman@ag-industries.com
Mr Andrew Saville	Bloodbank SA	Manager	Health	Boksburg	011 917 3333	011 917 4078	082 268 7817	Hostel Street, Plantation, Boksburg	P.O. Box 98, Boksburg, 1460	AndrewS@inl.sanbs.org.za
Mr Hilton Anthony	DECOCRAFT -MICSА		Business & Commerce	Johannesburg	011 417 6651	011 616 5540	082 451 4612	1 Dwerg Street, Denver, 2094	P.O. Box 40344, Cleveland,	hilton@micsa.co.za
Mr Harry Traub	DRD Gold - Knights & City Deep		Business & Commerce	Johannesburg	011 622 2773/4					harry@drytech.co.za
Mr Harry Traub	DRY TECH		Business & Commerce	Johannesburg	011 622 2773/4					harry@drytech.co.za
Ms Chrissie	DRY TECH		Business & Commerce	Johannesburg	011 622 2773/4					
Mr Simphiwe Makaka	Dukathole Environmental CommunityForum	President	CBOs & NGOs	Ekurhuleni		011 873 9966	073 594 4532	2541 Mvoti Crescent, Exention 9		inongo@webmail.co.za
Ms Marlene Malgas	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			073 424 4983	2268 Mfolozi Street, Exention 9		
Mr David Zilwa	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			072 611 8769	20 Geelbeck Street, Delmore		
Mr Julius Mjonono	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			082 096 3120	HH922 Jerusalem Informal Settlement		
Mr Moeng Moleseng	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			076 978 7792	877 Tokyo Sexwale, Reiger Park, Boksburg		
David	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			072 419 3728		P.O. Box 1042, Germiston	
Mr Freddy Nyambi	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			072 462 7306		P.O. Box 1042, Germiston, 1401	
Ms Grace Obose	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			072 127 4599	Jerusalem, Germiston		
Ms Anna Mmako	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			073 034 7066	F120 Angelo Informal Settlement		
Mr Pat Mabasa	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			083 874 4874	E469 Jerusalem Informal Settlement		
Mr Lucky Malesela	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			078 126 9712		P.O. Box 86059, City Deep	
Mr Thandeka Novuka	Dukathole Environmental CommunityForum		CBOs & NGOs	Ekurhuleni			073 437 3725	F1042 Angelo Informal Settlement		
Mr John Fell	Greater Heriotdale Business Forum	Chairperson	Business & Commerce	Heriotdale		011 626 2047	072 307 3147	26 Crusible Road, Heriotdale		
Mr Hugh Lee	Greater Heriotdale Business Forum		Business & Commerce	Heriotdale	011 856 6600	011 626 1931	083 267 4425	26 Hyser/Crucible Street, Heriotdale		info@clearfreight.co.za
Mr Graham Twaddle	Greater Heriotdale Business Forum		Business & Commerce	Heriotdale	011 626 2936	011 626 2047	083 447 4523	26 Crusible Road, Heriotdale		
Mr Piet, Wilhelm de Vries	Iprop Limited		Business & commerce	Johannesburg	011 496 1777	011 496 1222	076 122 2314		P.O. Box 27, Crown Mines, 2025	pietdv@iprop.co.za
Mr Andrew Barker	Iprop Limited	Development Co-ordinator	Business & commerce	Johannesburg		011 680 9791			P.O. Box 27, Crown Mines, 2025	083 274 4424
Mr Petro Hydenrych	Iprop Limited		Business & commerce	Johannesburg	011 496 1777	011 496 1222			P.O. Box 27, Crown Mines, 2025	
Ms Kirsten Harrison	Johannesburg Development Agency	Manager	CBOs & NGOs	Johannesburg	011 688 7841					
Mr Neil Fraser	Johannesburg Heritage Trust	Area Manager	CBOs & NGOs	Johannesburg	011 447 6388	011 447 8504	083 456 0242			neil@urbaninc.co.za
Mr Vincent Muberuka	Johannesburg Road Agency (Regional)	Area Manager	CBOs & NGOs	Regional	011 618 3430	011 618 2994	072 185 7398			v.muberuka@jra.org.za
Ms Joan Mnisi	Johannesburg Road Agency (Regional)	Officer	CBOs & NGOs	Regional	011 618 3430	011 618 2994	082 561 0304			j.mnisi@jra.org.za

Name	Company/ Organisation	Job Title	Interest Group	Branch	Tel	Fax	Cell	Physical Address	Postal Address	Email
Mr Pieter van Eeden	Klip River Forum		Environment	Johannesburg	011 972 5298	011 972 5298	083 379 4419			pieter.vaneeden@absamail.co.za
Mr Borzou Hosseinkhani	Life Waverly Care Centre	Manager	Health	Boksburg	011 219 9816	866779810	082 688 8058			Bornou.Hosseinkhani@life.healthcare.co.za
Ms Annatjie Geldenhuys	Life Waverly Care Centre	Officer	Health	Boksburg			083 267 9106			Annatjie.Geldenhuys@healthcare.co.za
Mr Matthews Maovodi	Life Waverly Care Centre	Officer	Health	Boksburg	011 219 9816	866779810				Matthews.Maovodi@lifehealthcare.co.za
Ms Michelle Jacobs	Media (Press/Newspaper)	Editor	Media	National	0860 836 0904	011 836 0904				michelle.jacobs@inl.co.za
Ms Carol-Ann van der Haar	Multiflora Flower Market	Manager	Business & Commerce		011 613 4011	011 613 8701	083 307 9140			cvanderhaar@multiflora.co.za
Mr Flo Bird	Parktown and Westcliff Heritage Trust		CBOs & NGOs	Johannesburg	011 482 3349	011 481 7807				
Ms Elsabe Brink	Provincial Heritage Resource Authority of Gauteng		CBOs & NGOs	Provincial	011 837 2247		083 348 8080			elsabeb@gpg.gov.za
Mr Eric Itskip	Provincial Heritage Resource Authority of Gauteng	Officer	CBOs & NGOs	Provincial						
Mr Johan Bruwer	South African National Roads Agency	Manager	CBOs & NGOs	National	012 426 6200	012 348 1512	083 283 6053			bruwerj@nra.co.za
Mrs Mary Bjornstad	Wildlife and Environment Society of South Africa	Chairperson	Environment	Boksburg	011 917 3327					bjornstad@absamail.co.za
Mrs Henry Swanzinger	Wildlife and Environment Society of South Africa	Secretary	Environment	Boksburg	011 917 0010	011 892 5511		71 North Street, Plantation, Boksburg		
Mr Neels C Hoek	Witwatersrand Gold Mining Realization Trust	Chairperson	Business & Commerce	Johannesburg	012 667 4838	012 677 4838	084 500 1978	100 Limpopo, Lyttelton, Centurion		ahoek@yebo.co.za
Ms Ashley Rutherford	Resident		Land owner/user		011 826 4022	011 826 4022	082 816 6355		P.O. Box 13161, Witfield Boksburg	

Appendix 2: Information Sharing Documents

DRD GOLD SOUTH AFRICAN OPERATIONS

Crown Gold Recoveries (Pty) Ltd.

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT UPGRADE

CITY DEEP OPERATION BACKGROUND INFORMATION DOCUMENT

PURPOSE OF THIS DOCUMENT

This document provides important information regarding the upgrade of the City Deep Environmental Management Programme Report (EMPR) to achieve compliance with the Mineral and Petroleum Resources Development Act (MPRDA).

This document provides you with information relating to:

- The proposed project;
- The environmental and social impacts associated with the City Deep operations to date; and
- The Public Participation Process (PPP) which invites you to share your issues and concerns related to the operation.

The documents which will be prepared as part of this project will be:

- An Environmental Impact Assessment (EIA); and
- An Environmental Management Programme (EMP).

These documents will be made available to Interested and Affected Parties (IAPs) before final submission to the authorities. Issues raised during the PPP will provide input into both documents.

To ensure that you receive further documentation and that all your comments and issues are considered, please complete the attached response sheet, or contact:

**Please ensure that your
comments reach us by
26 October 2007,**

Digby Wells & Associates:

Helen Knight or Banyana Kolobe
Tel: 011 504 1438 011 504 1443
Fax: 086 502 8680 086 524 5588
Email: helen@digbywells.co.za
banyana@digbywells.co.za
Postal: Private Bag X10046
Randburg 2125

CROWN GOLD RECOVERIES

Crown Gold Recoveries (Pty) Ltd. is a wholly owned subsidiary of DRDGold South African Operations (DRDSA). The business of the company is to re-treat sand dumps and slimes dams deposited as tailings from now defunct mines that once operated in the greater Witwatersrand area. The company has successfully reclaimed 23 residue disposal facilities. This document concentrates specifically on the company's City Deep operation in the City of Johannesburg and Ekurhuleni Metropolitan area.

The company currently has three operating plants, namely:

- Crown Mines
- City Deep – **which we will be discussing**
- Knights

Through the treatment of dumps in these areas, Crown has unlocked over 205 ha of land for economic development. The urban location of these dump sites makes the redevelopment of these properties highly valuable.

The City Deep residue is pumped to the Crown Plant which is located east of the Geldenhuys interchange, West of Rosettenville Road, North of the M2 motorway and south of Regent's Park.

<i>Dump No.</i>	<i>Status</i>	<i>Affected location</i>
3/L/40	Not viable	Heidelberg Road & N17
3/L/42	Not viable	Wemmer Pan, Heidelberg Road
3/L/43	Not viable	Wemmer Pan, Heidelberg Road
3/L/44	Not viable	Wemmer Pan, Heidelberg Road
4/L/2	Not viable	M2, Rosherville lake area
4/L/3	Not viable	Heidelberg Road & N17
4/L/4	Not viable	Heidelberg Road & N17
4/L/6	Not viable	N12, Rand Airport
4/A/8	Mined & rehabilitated	Houer Street
3/L/45	In process of being mined	City Deep
3/L/17	In process of being mined	M1 & Selby Extensions
3/A/19 (Mennels)	In process of being mined	M2 Highway
4/L/1	In process of being mined	Rosherville area
4/A/9	In process of being mined	Heriotdale
4/L/25		
4/A/11	In process of being mined	M2 Highway & Eastern Bypass

From the reclamation sites, the recovered sand and slurry is transported to the City Deep plant where gold is extracted, and the residue is deposited directly onto the Crown tailings facility.

Please refer to the attached diagram showing the City Deep area of operation.

The City Deep operation has a remaining life of approximately 36 months. Closure of the site will likely be reached in 2009, at which point the tailings facility would have reached its maximum storage capacity.

MINING METHODS

High pressure water guns are used to break up the slime face from where it flows into a launder trench to a pump system. It is then pumped to the plant where gold extraction takes place and the residue is pumped to the Crown tailings facility.

CITY DEEP EMPR UPGRADE PROJECT

This project deals with the upgrade of the City Deep Environmental Management Programme Report (EMPR) into a format that is consistent with the Mineral and Petroleum Resources Development Act (MPRDA – Act No. 28 of 2002).

In 1986 the Department of Minerals and Energy (DME) approved an EMPR for the City Deep operation. This document outlines the impacts and issues that are associated with this operation, and also details measures by which these impacts should be controlled and managed by City Deep. Issues that were identified were informed mainly through the PPP where IAPs were encouraged to provide input into the process and to raise concerns to be recorded in the final documentation.

The MPRDA now requires that the City Deep EMPR be upgraded into an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP).

As part of the process of compiling these documents, a consultation process must be undertaken to identify further issues and concerns associated with the City Deep operation and the upgrade of its EMPR document. Issues identified will then used to inform guide environmental studies which must be undertaken as part of the process. The following submissions will take place after consultation has been undertaken:

1. A **draft PPP Report** will be made available for public comment and review. This document will outline identified issues and concerns and propose mitigation measures. A 30 day comment period will be allowed before finalisation of the document.
2. An **EIA and EMP** for City Deep will be submitted to the DME detailing impacts that have been identified at the operation. These impacts will be rated in terms of their significance. The EMP will outline measures by which impacts must be addressed by City Deep.

In terms of dumps which have been identified as being unviable/ uneconomical to reclaim, rehabilitation procedures will be outlined in the EMP to ensure that the sites are left in an acceptable environmental condition.

KEY ISSUES AND IMPACTS TO DATE

To date, a number of key issues and impacts have been identified as being associated with the Knights operation.

The following **positive** impacts are applicable:

- Employment of approximately 114 local people and 82 contractors
- Removal of dumps can lessen the visual and environmental impacts caused to nearby residents
- Key urban land is unlocked for redevelopment
- Knights contributes to the local and national economy through the sale of the gold and through the payment of rates and taxes to the municipal authority
- Involvement of the operation in Local Economic Development in surrounding communities

The following **negative** impacts are applicable:

- Increased dust pollution during reclamation
- Increased water pollution during reclamation
- Visual impact of the Crown Tailings Complex
- Loss of employment associated with closure
- Increased crime during reclamation
- Potential for reclaimed sites to be left vacant

INDEPENDANT CONSULTANT

Digby Wells and Associates (DWA) is an independent consultant with a wealth of experience in undertaking public consultation.

The company has been commissioned to undertake the PPP for the project, and to independently record issues and concerns identified by stakeholders. Where negative impacts are identified, recommendations will be made to Crown with regard to how these impacts should be avoided or minimised.

DWA has no private interest in Crown and operates independently to reflect both the interests of the stakeholders and the reclamation company.

PUBLIC PARTICIPATION PROCESS

Stakeholders are offered the opportunity to raise issues, concerns and suggestions regarding the process. These comments, together with the findings of related environmental specialist studies, will form the compilation of the final EIA/EMP document.

Should you wish to remain involved in the project, please complete the attached IAP registration form. This will ensure that all project related correspondence is directed to you and that you are updated on any further developments.

It is important that all stakeholders follow the correct contact procedure when raising issues or concerns regarding the City Deep EMPR Upgrade Project. All queries should be directed through **Helen Knight** of DWA, who will then ensure that the relevant specialists are contacted to address the issue.

Digby Wells & Associates:

Helen Knight

Tel: 011 504 1438

Fax: 086 502 8680

Email: helen@digbywells.co.za

Postal: Private Bag X10046, Randburg 2125

Thank you for your time



Environmental Solutions Provider
Co. Reg. No. 1999/05985/07

Digby Wells & Associates (Pty) Ltd
Fern Isle; Section 9
359 Pretoria Ave
Private Bag X10046
Randburg; 2125
South Africa
Tel: +27 11 789 9495
Fax: +27 11 789 9498
Email: info@digbywells.co.za

3 August 2007

Dear Authority

Crown Gold Recoveries (Pty) Ltd.



**INVITATION TO AN INFORMATION SHARING MEETING FOR
CITY DEEP ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT
UPGRADE PROCESS,
JOHANNESBURG, GAUTENG**

Crown Gold Recoveries (Pty) Ltd. is in the business of retreating sand and slimes dumps deposited as tailings from defunct mines operating in the Witwatersrand area. The company has successfully reclaimed 23 dumps, and has three operational plants, namely:

- Crown Mines, in the City of Johannesburg area
- City Deep, in the City of Johannesburg area
- Knights, in the Ekurhuleni area

This invitation deals specifically with the upgrade of City Deep's existing Environmental Management Programme Report (EMPR) to meet the requirements of the Mineral and Petroleum Resources Development Act (MPRDA – Act No. 28 of 2002).

In order to achieve compliance with this Act, an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) must be compiled for the operation. These documents must reflect adherence to the MPRDA Regulations as well as the National Environmental Management Act (NEMA).

Digby Wells & Associates (DWA) has been appointed to undertake the required Public Participation Process for this upgrade process. This process will serve to ensure that regulatory authorities and other Interested and Affected Parties (IAPs) remain informed of the project and any progress made in this regard.

As part of the PPP, you are invited to attend an initial authorities meeting where you will be given the opportunity to voice your issues and concerns, and ask any questions

that you may have regarding the project. You will also have the opportunity to raise any requirements that your organisation may have.

The objectives of this meeting would be to introduce you to the City Deep EMPR Upgrade Project and to discuss the relevant process that should be followed.

The details for the meeting are as follows:

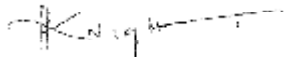
Date: Wednesday, 5 September 2007
Time: 14:00 to 16:30
Venue: Heritage Park Conference Centre - Rosherville

Please respond by 27 August 2007 to confirm your attendance. Please ensure that you are able to attend this meeting should you wish to remain informed with regard to project developments. Similarly, if you are unable to attend but would like to be kept informed, please inform us in writing of this.

Queries and responses can be directed to:

Helen Knight	or	Banyana Kolobe
Tel: 011 504 1438		011 504 1443
Fax: 086 502 8680		086 524 5588
Email: helen@digbywells.co.za		banyana@digbywells.co.za
Postal: Private Bag X10046 Randburg 2125		

Yours faithfully



Helen Knight
Public Participation Practitioner
Digby Wells & Associates



Environmental Solutions Provider
Co. Reg. No. 1999/05985/07

Digby Wells & Associates (Pty) Ltd
Fern Isle; Section 9
359 Pretoria Ave
Private Bag X10046
Randburg; 2125
South Africa
Tel: +27 11 789 9495
Fax: +27 11 789 9498
Email: info@digbywells.co.za

3 August 2007

Dear Stakeholder

Crown Gold Recoveries (Pty) Ltd.



**INVITATION TO AN INFORMATION SHARING MEETING FOR
CITY DEEP ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT
UPGRADE PROCESS,
JOHANNESBURG, GAUTENG**

Crown Gold Recoveries (Pty) Ltd. is in the business of retreating sand and slimes dumps deposited as tailings from defunct mines operating in the Witwatersrand area. The company has successfully reclaimed 23 dumps, and has three operational plants, namely:

- Crown Mines, in the City of Johannesburg area
- City Deep, in the City of Johannesburg area
- Knights, in the Ekurhuleni area

This invitation deals specifically with the upgrade of City Deep's existing Environmental Management Programme Report (EMPR) to meet the requirements of the Mineral and Petroleum Resources Development Act (MPRDA – Act No. 28 of 2002).

In order to achieve compliance with this Act, an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) must be compiled for the operation. These documents must reflect adherence to the MPRDA Regulations as well as the National Environmental Management Act (NEMA).

Digby Wells & Associates (DWA) has been appointed to undertake the required Public Participation Process for this upgrade process. This process will serve to ensure that the and other public and Affected Parties (IAPs) remain informed of the project and any progress made in this regard.

As part of the PPP, you are invited to attend an initial public meeting where you will be given the opportunity to voice your issues and concerns, and ask any questions that you

may have regarding the project. You will also have the opportunity to raise any requirements that your organisation may have.

The objectives of this meeting would be to introduce you to the City Deep EMPR Upgrade Project and to discuss the relevant process that should be followed.

The details for the meeting are as follows:

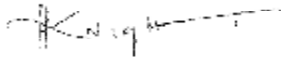
Date: Wednesday, 5 September 2007
Time: 17:30 to 20:00
Venue: Heritage Park Conference Centre - Rosherville

Please respond by 27 August 2007 to confirm your attendance. Please ensure that you are able to attend this meeting should you wish to remain informed with regard to project developments. Similarly, if you are unable to attend but would like to be kept informed, please inform us in writing of this.

Queries and responses can be directed to:

Helen Knight	or	Banyana Kolobe
Tel: 011 504 1438		011 504 1443
Fax: 086 502 8680		086 524 5588
Email: helen@digbywells.co.za		banyana@digbywells.co.za
Postal: Private Bag X10046 Randburg 2125		

Yours faithfully



Helen Knight
Public Participation Practitioner
Digby Wells & Associates

Notification of the City Deep Environmental Management Programmed Report Upgrade

This notice serves to inform you that DRDGold SA (DRD) is currently in the process of upgrading the Environmental Management Programme Report (EMPR) for its City Deep operation to meet the requirements of the new Minerals and Petroleum Resources Development Act (MPRDA – Act No. 28 of 2002). The City Deep plant is currently operational on the Heidelberg Road, Ekurhuleni, Gauteng. This project is known as the **City Deep EMPR Upgrade Project**.

Crown is in the business of re-treating sand dumps and slimes dams deposited as tailings from now defunct gold mines that once operated in the Wit. The company has three operating plants, namely:

- Crown Mines (Booyens Reserve suburb of Johannesburg)
- **City Deep (City Deep suburb of Johannesburg) – which we will be discussing**
- Knights (Knights suburb of Germiston, Ekurhuleni)

This notice refers specifically to the **City Deep** operation, which processes material from a number of dumps in the nearby area, extracts gold at the City plant and then deposits the tailings on one of three active Crown sites. The City Deep operation has a remaining life of approximately 36 months. Closure of the site will likely be reached in 2009, at which point the tailings facility would have reached its maximum storage capacity.

City Deep currently has an approved EMPR in terms of The Minerals Act of 1991. The MPRDA now requires that that this EMPR be upgraded into an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP). These documents will serve to outline the baseline environment within which City Deep is situated, and will also detail impacts and issues that are associated with the operation. Measures by which impacts can be avoided or minimised will be described. There are some dumps which are currently unviable to reclaim but rehabilitation measures for these will also be outlined in the EMP to ensure that sites are left in an acceptable environmental condition after closure.

In line with mining legislation, a Public Participation Process (PPP) is being undertaken to consult with Interested and Affected Parties (IAPs) regarding this operation. The purpose of this consultation is to ensure that all IAPs are identified, given information regarding the operations and are given the opportunity to raise comments and issues relevant to the project.

Notice of Public Meeting: A public meeting will be held for the City Deep EMPR Upgrade Project on **Wednesday, 5 September 2007**. The meeting will be held from **17:30 – 20:00** at **The Heritage Park Conference Centre, Rosherville**

If you wish to become involved in the project and receive more detailed information, please attend this meeting and feel free to contact us for further information:

Digby Wells and Associates			
	Helen Knight	or	Banyana Kolobe
Tel:	011 504 1438		011 504 1443
Fax:	086 502 8680		086 524 5588
Email:	helen@digbywells.co.za		banyana@digbywells.co.za

APPLICANT...
 DINS-AUGUSTUS...
 NO. 5941...
 INVILJOEN...
 STRAAT...
 62-2556...
 HERBY...
 SIPIHWE...
 PROJECTS...
 OF...
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 REPORT...
 CONCERNING...
 RECOVERY...
 OF THE...
 ASSETS...
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710...
 with the Registrar of Pension Funds, P.O. Box 35655, Menlo Park, 0102 not later (STAR 4787548)

710...
 NGVS PO BOX 3957 JOHANNESBURG 2000 (STAR4803265)

713...
 Tel: (013) 737-6619 Fax: (013) 737-6616 Ref: R14/CW/ND/Um/2000 (STAR4826322)

713...
 House, 701 Avenue, Parktown North Ref: NO2736/06/0k Tel: (011) 442 9045 (STAR4830760)

713...
 House, 701 Avenue, Parktown North Ref: NO4344/07/0k Tel: (011) 442 9045 (STAR4830639)

713...
 House, 701 Avenue, Parktown North Ref: NO4355/07/0k Tel: (011) 442 9045 (STAR4820270)

DRDGOLDSA
 CROWN



Crown Gold Recoveries (Pty) Ltd.
Notification of the Knights EMPR Upgrade Process
Ekurhuleni, Gauteng

This notice serves to inform you that Crown Gold Recoveries is currently in the process of upgrading the Environmental Management Programme Report (EMPR) for its Knights operation to meet the requirements of the new Minerals and Petroleum Resources Development Act (MPRDA - Act No. 28 of 2002). The Knights plant is currently operational on Main Reef Road, Ekurhuleni, Gauteng. This project is known as the **Knights EMPR Upgrade Project**.

Crown is in the business of re-treating sand dumps and slimes dams deposited as tailings from now defunct gold mines that once operated in the Wit. The company has three operating plants, namely:

- Crown Mines (Booyens Reserve suburb of Johannesburg)
- City Deep (City Deep suburb of Johannesburg)
- **Knights (Knights suburb of Germiston, Ekurhuleni) - which we will be discussing**

This notice refers specifically to the Knights operation, which processes material from a number of dumps in the nearby area, extracts gold at the Knights plant and then deposits the tailings on the Knights tailings facility called Rooikraal. The Knights operation has a remaining life of approximately 9 years. Closure of the site will likely be reached in 2015, at which point the tailings facility would have reached its maximum storage capacity.

Knights currently have an approved EMPR in terms of The Minerals Act of 1991. The MPRDA now requires that this EMPR be upgraded into an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP). These documents will serve to outline the baseline environment within which Knights is situated, and will also detail impacts and issues that are associated with the operation. Measures by which impacts can be avoided or minimised will be described. There are some dumps which are currently unviable to reclaim but rehabilitation measures for these will also be outlined in the EMP to ensure that sites are left in an acceptable environmental condition after closure.

In line with mining legislation, a Public Participation Process (PPP) is being undertaken to consult with Interested and Affected Parties (IAPs) regarding this operation. The purpose of this consultation is to ensure that all IAPs are identified, given information regarding the operations and are given the opportunity to raise comments and issues relevant to the project.

Notice of Public Meeting: A public meeting will be held for the Knights EMPR Upgrade Project on **Thursday, 6 September 2007**. The meeting will be held from 17:30 - 20:00 at **The Duncannon Hotel & Conference, Edenvale**.

If you wish to become involved in the project and receive more detailed information, please attend this meeting and feel free to contact us for further information:

Digby Wells and Associates
 Helen Knight or Banyana Kolobe
 Tel: 011 504 4422 or 011 504 4422

DRDGOLDSA
 CROWN



Notification of the City Deep Environmental Management Programmed Report Upgrade

This notice serves to inform you that DRDGOLD SA (DRD) is currently in the process of upgrading the Environmental Management Programme Report (EMPR) for its City Deep operation to meet the requirements of the new Minerals and Petroleum Resources Development Act (MPRDA - Act No. 28 of 2002). The City Deep plant is currently operational on the Heidelberg Road, Ekurhuleni, Gauteng. This project is known as the **City Deep EMPR Upgrade Project**. Crown is in the business of re-treating sand dumps and slimes dams deposited as tailings from now defunct gold mines that once operated in the Wit. The company has three operating plants, namely:

- Crown Mines (Booyens Reserve suburb of Johannesburg)
- **City Deep (City Deep suburb of Johannesburg) - which we will be discussing**
- Knights (Knights suburb of Germiston, Ekurhuleni)

This notice refers specifically to the City Deep operation, which processes material from a number of dumps in the nearby area, extracts gold at the City plant and then deposits the tailings on one of three active Crown sites. The City Deep operation has a remaining life of approximately 36 months. Closure of the site will likely be reached in 2009, at which point the tailings facility would have reached its maximum storage capacity.

City Deep currently has an approved EMPR in terms of The Minerals Act of 1991. The MPRDA now requires that this EMPR be upgraded into an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP). These documents will serve to outline the baseline environment within which City Deep is situated, and will also detail impacts and issues that are associated with the operation. Measures by which impacts can be avoided or minimised will be described. There are some dumps which are currently unviable to reclaim but rehabilitation measures for these will also be outlined in the EMP to ensure that sites are left in an acceptable environmental condition after closure.

In line with mining legislation, a Public Participation Process (PPP) is being undertaken to consult with Interested and Affected Parties (IAPs) regarding this operation. The purpose of this consultation is to ensure that all IAPs are identified, given information regarding the operations and are given the opportunity to raise comments and issues relevant to the project.

Notice of Public Meeting: A public meeting will be held for the City Deep EMPR Upgrade Project on **Wednesday, 5 September 2007**. The meeting will be held from 17:30 - 20:00 at **The Heritage Park Conference Centre, Rosettenville**.

If you wish to become involved in the project and receive more detailed information, please attend this meeting and feel free to contact us for further information:

Digby Wells and Associates
 Helen Knight or Banyana Kolobe
 Tel: 011 504 4422 or 011 504 4422



NOTIFICATION OF THE CITY DEEP ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT UPGRADE

This notice serves to inform you that DRDGold SA (DRD) is currently in the process of upgrading its City Deep Recoveries (CDR) Environmental Management Programme Report (EMPR) to meet the requirements of the Minerals and Petroleum Resources Development Act (MPRDA – Act No. 28 of 2002). This involves the compilation of an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP).

The City Deep plant is currently operational in Heidelberg Road in Johannesburg CBD area, Gauteng.

In line with mining legislation, a Public Participation Process (PPP) is being undertaken to consult with Interested and Affected Parties (IAPs) on the project.

Notice of Public Meeting:

A public meeting will be held for the **City Deep EMPR Conversion Project** on **5 September 2007** at 17:30 at **The Heritage Park Conference Centre, Rosherville**

If you wish to become involved in the project and receive more detailed information, please attend this meeting and feel free to contact us for further project information:

Consultant: Digby Wells & Associates

Contact person(s): Helen Knight Banyana Kolobe

Telephone: 011 504 1438 011 504 1443

Fax: 086 502 8680 086 524 5588

Email: helen@digbywells.co.za banyana@digbywells.co.za

Postal Address Private Bag X 10046, Randburg 2125

REGISTRATION & COMMENTS SHEET

CITY DEEP EMPR UPGRADE PROJECT

It is important that we gain an understanding of your perceptions and concerns regarding the City Deep EMPR Upgrade Project. Please complete this form so that your views can be taken into account, and so that you may be registered as an Interested and/or Affected Party. This form will ensure that you receive all further information/documentation regarding the project.

Please email, fax or post the form to:

Email: helen@digbywells.co.za
 Fax: 086 502 8680
 Postal: Private Bag X10046, Randburg, 2125

1. Name and contact details

Name: <i>(Title, Full Names and Surname)</i>	
Organisation: <i>(if applicable, otherwise state private individual)</i>	
Telephone number:	
Fax number:	
Cell number:	
Email address:	
Postal address:	
Physical address:	

2. Perceptions and concerns

<i>What positive impacts do you feel are currently associated with the City Deep operation?</i>

What negative impacts do you feel are currently associated with the City Deep operation?
<i>Do you have any other general comments related to City Deep or its EMPR upgrade process?</i>

Please note that the Public Participation Process and gathering of perceptions and concerns in not limited to the abovementioned, and will include further meetings and consultations.

Appendix 3: Information Dissemination Process

Methods of Consultation and Media

Target Audience	Nature and aim of Consultation	Media and Consultation Process	Location
National , Provincial Authorities, Local Municipalities and Councillors	<ul style="list-style-type: none"> • Authorities meeting to ensure that the relevant departments understand what the project will entail. • Gather any concerns and issues to feed into specialist studies. • Consultation with authorities to ensure conceptual clarification. 	<ul style="list-style-type: none"> • A letter of invitation, background information document (BID) presented in English will be posted. • Follow up reminders for this meeting will be in the form of phone calls, faxes messages. 	Heritage Conference Centre
Interested Parties (Civil society meetings)	<ul style="list-style-type: none"> • Meeting to ensure that interested parties, including NGO's, understand what the project will entail. • Ensure that civil society structures have appropriate avenues of participation. • Gather any concerns and issues raised to feed into specialist studies. • Interested parties will be sent comments sheets to register as an interested party for those who are unable to attend the meeting. • Comments sheets will feed into specialist studies. 	<ul style="list-style-type: none"> • A letter of invitation, BID and comments sheets presented in English will be posted. • Follow up reminders for this meeting will be in the form of phone calls, faxes messages. • A media release advertising meetings will be placed in relevant newspapers. • Posters advertising the meeting will be on public display. • Radio advertisements. 	Heritage Conference Centre
Directly affected parties	<ul style="list-style-type: none"> • Meetings to ensure that directly affected parties understand what the project will entail. • Gather any concerns and issues raised to feed into specialist studies. 	<ul style="list-style-type: none"> • A letter of invitation, BID and comments presented in English will be posted/ handed out. • Follow up reminders for this meeting will be in the form of posters placed around the site and media release.. • Stakeholder mailing list updated 	Heritage Conference Centre

Appendix 4: Minutes and Presentations from Meetings



Environmental Solutions Provider
Co. Reg. No. 1999/05985/07

Digby Wells & Associates (Pty) Ltd
Fern Isle; Section 9
359 Pretoria Ave
Private Bag X10046
Randburg; 2125
South Africa
Tel: +27 11 789 9495
Fax: +27 11 789 9498
Email: info@digbywells.co.za

23 October 2007

Dear Sir/ Madam

**DRAFT MEETING NOTES FROM THE INFORMATION SHARING MEETING
WITH AUTHORITIES ON THE UPGRADE OF THE CITY DEEP
ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT (EMPR)**

An information sharing meeting was held at The Heritage Conference Centre on Wednesday, 5 September 2007 with identified regulatory authorities dealing with the upgrade of the City Deep EMPR. The objectives of this meeting were to disseminate project related information and also allow participants to voice their issues, concerns and suggestions.

Attached, please find a copy of the draft meeting notes for your perusal and comment. Issues that were identified at this meeting will be investigated as part of the Environmental Impact Assessment (EIA) process, and will be included in the relevant specialist studies that are currently in progress.

Kindly review these notes and submit any comments to Banyana Kolobe at Digby Wells and Associates by no later than **20 November 2007**. Should no comments be received, these minutes will be regarded as the final minutes.

Comments can be forwarded to:

Banyana Kolobe
Digby Wells & Associates
Private Bag X 10046
Randburg, 2125
South Africa
Tel: +27 11 504 1443
Fax: +27 86502 524 5588
Email: banyana@digbywells.co.za

DWA would like to take this opportunity you for your participation in this project and look forward to your continued involvement.

Yours sincerely

H Knight
Public Participation Practitioner

DRAFT NOTES

INFORMATION SHARING MEETING

UPGRADE OF THE CITY DEEP EMPR

DATE: WEDNESDAY, 5 SEPTEMBER 2007

TIME: 04:15 – 15:40

VENUE: THE HERITAGE CONFERENCE CENTRE

ATTENDEES AND APOLOGIES

A register of all attendees is presented in Appendix A and a stakeholder database showing who was invited to attend this meeting can be found in Appendix B.

The contact details for the public consultation team are presented in Table 1.

Table 1: PUBLIC CONSULTATION TEAM AND APOLOGIES

Public Consultation Team			
NAME	ORGANISATION	TEL	FAX
Graham Trusler (GT)	Digby Wells & Associates (DWA) Project Director	(011) 789 9495	(011) 789 9498
Helen Knight (HK)	Digby Wells & Associates Public Participation Practitioner	(011) 504 1438	086 502 8680
Banyana Kolobe (BK)	Digby Wells & Associates Public Participation	(011) 504 1443	086 524 5588
Henry Gouws (HG)	Crown Gold Recoveries (CGR) General Manager	(011) 248 9000	
Louis Kleynhans (LK)	CGR Environmental Manager	(011) 248 9000	(011) 835 2922 082 777 3413
Apologies			
Gauteng Department of Agriculture, Conservation and Environment (GDACE)			

WELCOME AND INTRODUCTION

GT welcomed everybody to the meeting and introduced the DWA and CGR team to the attendees. Please refer to **Error! Reference source not found.** for a copy of the presentation.

AGENDA

GT proposed an agenda shown in slide 2, which was accepted by those present.

MEETING OBJECTIVES

GT presented the objectives of the meeting as follows:

- Introduce the project team to regulating authorities
- Build a long-term and positive relationship between CGR and the regulating authorities
- Ensure open and transparent communication
- Describe the processes followed to date
- Allow authorities to put forward requirements and preferences
- Record issues and concerns
- Agree on a way forward with regard to the EMPR upgrade process

The purpose of this meeting was to introduce the City Deep Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) upgrade project to the

authorities and to record all relevant issues and concerns. These issues and concerns can then provide input into the broader environmental studies that are being undertaken

PROJECT BACKGROUND

A detailed project background, was discussed by HG as shown in slides 5 – 16.

PUBLIC INVOLVEMENT PROCESS

HK discussed the public involvement that is required as part of the EIA process, the public participation objectives and tasks that had been undertaken to date. Refer to slides 16 – 17.

DISCUSSIONS AND QUESTIONS For CLARIFICATION

Questions, issues of concern and comments discussed during the meeting are presented in Table 2.

CLOSURE

GT thanked everybody for their time and effort in attending the meeting. The meeting was officially closed at 15:40.

TABLE 2: DISCUSSION OF ISSUES, CONCERNS AND COMMENTS

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
Bio-physical Impacts			
Fauna and flora	Samukelisiwe Mdlasose: City of Johannesburg, Environmental Department	Enquired whether CGR had considered planting trees as part of rehabilitation instead of focusing only on grass.	Replied that the company had indeed considered this, especially with regard to Bluegums which grow easily on the dumps. CGR has also considered planting indigenous plants, which the company has found, do not grow as well as the alien Bluegums and pampas grasses. CGR has applied to the Department of Agriculture Conservation and Land Affairs (GDACE), to approve of planting trees with a height of no more than 2-3m on the last lift of the tailings dams. The company must conduct further research to see if there are other Bluegum species that are suitable. Another issue to consider is that the blue gum is often chopped down by nearby residents for the purpose of making fires.
	Samukelisiwe Mdlasose: City of Johannesburg, Environmental Department	Suggested that instead of concentrating only on alien plants for rehabilitation, that perhaps research on other indigenous species, and the usage of correct compost and chemicals of indigenous plants could be considered.	Thanked SM for the suggestion and noted it for the record. For the past 10 years, CGR have undertaken investigations, which are still ongoing, and realised that other indigenous plants grow extremely slowly on the dumps. Bluegum trees seem to be the only trees that grow quickly, in acidic conditions.
Surface Water	Floors Visser: City of Johannesburg, Health Department	Expressed an understanding that water supplies are very expensive in terms of irrigating vegetation on the dumps, but said that the whole area must be suitably rehabilitated in order to reduce the dust impact on the surrounding region.	The point was noted and it was stated that the vegetation programme will be accelerated.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
Monitoring and mitigation measures	Nic Van Deventer: City of Johannesburg, Health Department	Enquired if there was a way for cyanide and heavy metals to be taken out of water as this causes pollution issues when left in dams.	This has been a long term issue arising out of the legacy of mining in the Johannesburg area. Generally, this situation is controlled by the Department of Water Affairs and Forestry (DWAF), and long-term processes are being considered to find ways of removing substances such as cyanide and any other heavy metals in water. Cyanide has a limited short term impact and does not persist in the environment. The majority of such issues are due to the lack of control of 20 or 30 years ago, there has been poor management of mining regulations.
	Lizette van Zyl: City of Johannesburg, Health Department	Enquired how water seeping into the ground water system would be controlled. The polluted water has a yellowish substance. Is it cyanide which can be a very poisonous.	Cyanide typically results in a blue precipitate when it is exposed to an acid causing an iron sulphate. The yellowish substance that is referred to is an iron related substance and is not poisonous to animal life, it could however be detrimental to water quality..
	Lizette van Zyl: City of Johannesburg, Health Department	Asked whether there is any system in place for the monitoring of polluted water.	Responded that the water samples are analysed on a quarterly basis. CGR also participates in Water Forums around the Johannesburg area. LK can provide all of the information about the forums as well as any information concerning water monitoring issues.
	Samukelisiwe Mdlasose: City of Johannesburg, Environmental Department	Enquired as to what mitigation measures were in place for water monitoring, and how often this monitoring takes place.	Stated that CGR has identified 54 areas for in-stream, up-stream and down-stream monitoring. Water monitoring is done regularly and the process is operating very well. Results are given to DWAF.
	Lizette van Zyl: City of Johannesburg, Health Department	Stated that there is an area near the N17 highway where the level of ground water is very high. Enquired as to how this may be affected during the rainy season.	Replied that the first phase of the geohydrological investigations has already been undertaken as part of the water monitoring system to identify the ground water pollution plume. Some ground water is very high even in winter. The deeper aquifer, 900m below surface flows in the central mining basin.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
			Constant water monitoring and control of water levels need to be monitored.
Air quality	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Enquired as to what measures are taken to alleviate dust pollution problems. Asked what mechanisms are used for this problem, and how often sampling etc is undertaken.	Replied that dust is monitored on a monthly basis. CGR is known to have one of the best monitoring programs. Dust buckets are placed before and after the commencement of the operation. Sampling is done on a monthly basis with quarterly meetings with all stakeholders.
	Nic Van Deventer: City of Johannesburg, Health Department	With reference to dust suppression techniques, enquired as to what CGR's intentions would be for the upcoming 2010 World Cup, especially with regard to the FNB Stadium.	Stated that CGR is fully aware of these challenges and is currently working towards finding alternative methods of dust control.
Project Specific			
Closure			
Rehabilitation	Floors Visser: City of Johannesburg, Health Department	Expressed concern regarding the rehabilitation methodology that is used for the dumps and the length of time that it takes to grass the area. Enquired as to why this takes so long, and what could perhaps be done to speed up the process.	Agreed that the process is very slow, but the rehabilitation programme has been escalated. The intention of CGR is to rehabilitate approximately 15-17 hectares per year. CGR have made a formal application to be exempt from using alien species such as pampas grass as this grows well on the dumps. Further investigations are being undertaken into methodologies for speeding up the process of rehabilitation and vegetating the dumps with various other plant species.
	Floors Visser: City of Johannesburg, Health Department	Stated that the suppliers of water are very expensive and enquired whether CGR could perhaps investigate other forms of irrigation for the vegetation on the dumps.	Replied that water is one of the main problems. Vegetating on the mine dump slopes was difficult due to erosion and the vegetation was being used as a dust mitigation measure. Thanked FV for the advice. Other water sources are being investigated with DWAF.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
	Floors Visser: City of Johannesburg, Health Department	Enquired as to why the slimes from the tailings facilities could not be put back into the defunct mines considering rehabilitation is an expensive exercise.	This issue has been considered and it is an ongoing debate. For every 1 ton of rock treated slimes equalling 1.5 tons is produced as it contains water. There is also the natural closure of tunnels and underground workings. We can recover underground water but the quality is not suitable for vegetation purposes. One cubic metre of rock, which will need be milled is equal to two cubic metres after milling. There would not be sufficient space underground and other pollution issues would arise from depositing the slimes underground. Approximately six to seven hundred thousand tonnes of slimes is placed on the tailings facility per month.
Land uses	Douglas Wood: City of Johannesburg, Environmental Health Department	Stated that rehabilitated areas are generally not suitable for construction purposes. Expressed concern that the local metropolitan council currently plans to construct low cost housing on the portions of rehabilitated ground.	Replied that according to the law, construction (industrial, commercial etc) can in fact be undertaken on rehabilitated sites, e.g. Gold Reef City. However, no residential units may be constructed in these areas. Hazards such as acidic soil, radiation from the soil, etc can be dangerous. Samples of the soil can be taken to analyse and see if results show the viability to construct on a rehabilitated area. This will determine the final land use.
Operational			
Tailings facility	Nic Van Deventer: City of Johannesburg, Health Department	Enquired what process is usually followed with regard to the material that remains after extraction of gold is complete.	Stated that the remains are transported to the existing tailings dam complex through pipe lines.
	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Asked whether the slimes in tailing dams are at all re-usable and whether this could perhaps be dealt with in the EIA document.	Replied that there are areas where it can be used but only in very small quantities, research on the uses for this by-product is ongoing. These studies do not form part of the EIA process.
	Beverly Turk: City of Johannesburg, Ward Councillor	Asked whether bricks can be manufactured out of the tailings dam material.	Stated that this would not be permitted due to radiation.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
	Nic Van Deventer: City of Johannesburg, Health Department	Said that it was mentioned that the sludge is processed through two separate plants, and asked where the final product of the slime is deposited.	Replied that the final product is deposited on the Crown Mines tailings facility. The sludge is deposited on the tailings complex, where water is extracted and returned to the plant for re-use.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
	Nic Van Deventer: City of Johannesburg, Health Department	Asked whether the soil on the dumps is fertile.	Replied that the soil on the dumps is not at all fertile that is the reason why CGR use lime and fertilisers to increase soil fertility for rehabilitation purposes.
Soil	Beverly Turk: City of Johannesburg, Ward Councillor	Stated that there is currently a huge problem with the Bosmontspruit, and that when it rains, the sand /slime causes water levels that can be 1m higher than is usual. This scenario also causes a problem to the West of the N1 highway. Asked whether the Bosmont area is located under the CMR mining license.	Replied that CMR's mining license is separate to these discussions but that a note would be made regarding the problems experienced in the area. CGR are dealing with this and other similar issues and would investigate this problem further, but that the meeting at hand would need to focus on the City Deep operations.
Social	Beverly Turk. City of Johannesburg, Ward Councillor	Stated that a full Social and Labour Plan must be compiled for the company's City Deep operations. The directly affected ward's residents should be given preference for job opportunities at the operations.	Replied that every South African citizen is entitled to a job, housing etc. according to the country's policies. CGR has a full Black Economic Empowerment (BEE) policy in place. With existing mine operations and skilled employees, CGR will not employ any additional people and most employees that have been sourced were drawn from the local area surrounding the operations..
EIA Process			
Mining licences	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Enquired whether the three mines under CGR had existing EMPs and mining licences..	Replied that there were existing approved EMPs for the operations but due to the new MPRDA regulation a public consultation process had to be undertaken and the existing EIA and EMP had to be upgraded to ensure full compliance with the new MPRDA requirements. The final submission date for the updated EIA and EMP documentation is 20 December 2007.
Processes	Nic Van Deventer: City of Johannesburg, Health Department	Commented that previous mines as well as the DME regularly did not include the municipality as a stakeholder in environmental issues. Expressed gratitude that they are now part of the process as this makes things easier in terms of being able to address any problems experienced by the communities.	Agreed that it is important to include all the stakeholders as well as local authorities. CGR wants to build a transparent relationship with all IAPs in their operations with the assistance of the authorities. For any further information IAPs are welcome to contact the company's Environmental Manager. LK.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
	Nic Van Deventer: City of Johannesburg, Health Department	Asked whether a copy of the EIA/EMP would be sent to the attendees when it is completed. Enquired as to whether there would be a website containing the relevant information, and how people living in townships would be given access to the documents.	Said that the public will be sufficiently notified once the documents were completed. Letters will be distributed to inform people as to where the draft documents are on display for public comment. CGR as well as DWA will consider placing the documents on their respective websites.
Decommissioning	Nic Van Deventer: City of Johannesburg, Health Department Environment	Enquired what would happen if CGR ceased to exist, asked whether a closure plan is in place for the projects that are currently ongoing.	Replied that there is a closure plan in place, and CGR is committed to its responsibility to rehabilitate the areas that it disturbed. The company would have to apply to the Department of Minerals and Energy (DME) for a Closure Certificate. The DME ensures that the necessary trust funds are available and the disturbed areas will have to be completely rehabilitated before a Closure Certificate will be obtained. CGR will be on track with this process by the year 2011.
Hazardous materials	Nic Van Deventer: City of Johannesburg	Stated that the entire area was polluted with cyanide, enquired what the lifespan of cyanide is.	Replied that although cyanide is hazardous, it has a very short lifespan because the UV rays break it up.
	Nic van Deventer: City of Johannesburg	Suggested that guidelines with regard to cyanide and heavy metals be given in the EIA/EMP documents so that the public could have an understanding of the facts relating to these substances as people perceive them to be hazardous.	Thanked NvD for the advice, and noted the point noted for further consideration.
Public Consultation Process			
Public Consultation Process	Bervely Tuck : City of Johannesburg; Ward Councillor	Stated that it is very important for the City of Johannesburg to be involved in these processes, especially the councillors. The local residents often lodge their various complaints with the councillors, e.g. dust around the Heriotdale business area. The councillors are the representatives of the people and would thus like to be closely involved in CGR's operations. Knowledge enables the councillors to address the issues and concerns of the people.	The suggestion was well noted.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
	Samukelisiwe Mdlalose: City of Johannesburg, Environmental Department	Informed CGR that there is a new unit of compliance officers in the City of Johannesburg Municipality. These representatives are responsible for conducting follow-ups on IAP's issues and concerns. This is the reason that this unit must have a good relationship with mining sectors so that it may easily work together with CGR and reach required environmental regulations and standards.	Thanked SM for this information, and agreed that commitment and transparency is vital to building an ongoing and continuous relationship.
General			
Landowners	Mr Lee: Iprop Limited	Enquired as to who the land owners of the Mennels dump are.	Replied that CGR and Grinrod are the owners of the land.

Appendix A

Attendance register



ATTENDANCE REGISTER

FOR

**CITY DEEP EMPR UPGRADE PROJECT
INFORMATION SHARING MEETING**

Authorities

Wednesday, 5 September 2007

NAME	ORGANISATION/ DESIGNATION	POSTAL ADDRESS	CONTACT DETAILS
1. BANYANA KLOBE	DIGBY WELLS	PRIVATE BAG X11004 RANDBURG 2125	Tel: (011) 789 9495 Cell: 083 395 2957 Fax: (011) 789 9498 Email: banyana@vut.ac.za
2. Douglas Wood	ENVIRONMENTAL HEALTH	P.O. Box 1514 ROSEBANK 2130	Tel: 011 681 8112 Cell: 083 294 6752 Fax: 011 681 8211 Email:
3. Floris Vissag	Env. Health St Hannesburg.		Tel: 223 83 000 Cell: 082 255 9376 Fax: 011 474 6707 Email: Floris.v@joburg.org.za
4. Louis KLEYNHANS	ROWN GOOD RECOVERIES		Tel: 082 777 3413 Fax: (011) 835-2922 Email: Louis.KLEYNHANS@ZAG.PP60.CO.ZA
* 5. Hugh Lees	Central Filatures Pty Ltd		Tel: 011 856 6600 Cell: 083 267 4425 Fax: 011 626 1931 Email: info@centralfilatures.co.za
6. GRAHAM TWADDLE	HENGRY PROD HOLDINGS		Tel: (011) 626 2936 Cell: 083 447 4523 Fax: (011) 626 2047 Email: graham@wiretopp.co.za

NAME	ORGANISATION/ DESIGNATION	POSTAL ADDRESS	CONTACT DETAILS
7. <i>H.N. Grouns</i>	<i>CRONUM GROUPS RESEARCHERS G.M.</i>		Tel: <i>011 248 9000</i> Cell: <i>082 459 7825</i> Fax: <i>011 496 2058</i> Email: <i>H.N.Grouns@cronum.com</i>
8.			Tel: Cell: Fax: Email:
9.			Tel: Cell: Fax: Email:
10.			Tel: Cell: Fax: Email:
11.			Tel: Cell: Fax: Email:
12.			Tel: Cell: Fax: Email:

NAME	ORGANISATION/ DESIGNATION	POSTAL ADDRESS	CONTACT DETAILS
1. HELEN KNIGHT	DIGBY WELLS ASSOCIATES	PRIVATE BAG X10046 RANDBURG 2125	Tel: (011) 789 9495 Cell: 083 395 2951 Fax: (011) 789 9498 Email: helen@digbywells.co.za
2. Lizette v Zyl	Joburg - Region F.	P.O. Box 1514 Rosettenville 2130	Tel: 011 708 9498 Cell: 082 4457 9434 Fax: 011 - 6818 211 Email: lizettevzyl@joburg.org.za
3. Graham Trustel	DWA	P. Bag X10046 Randburg 2125	Tel: 011 708 9498 Cell: 082 90 22253 Fax: 011-789 9498 Email: graham@digbywells.co.za
4. Blyuk (Turk)	CUR W57	PO Box 1514 Rosettenville	Tel: 011 680 8000 Cell: 072 479 6430 Fax: 011 680 8204 Email: richied@joburg.org.za
5. Sankelisiwe Malalose	City of Joburg Environmental Department	Metro Centre	Tel: 011-407 7040 Cell: 082 944 3636 Fax: 011-403 4142 Email: Sankelisiwe@joburg.org.za
6. Nic van Buren	CITY OF JOHANNESBURG Environmental Health	Metro Centre	Tel: (011) 407 6796 Cell: 082 559 3763 Fax: (011) 403 0201 Email: nicv@joburg.org.za

Appendix B


Stakeholder Database

CITY DEEP IAP's LIST

Name & Surname	Job Title	Telephone	Fax	Cell	E-mail
Ms Marguerite Lubbe	DME - Assistant Director (no replacement)	(011) 358 9770	(011) 339 1858		
Ms Shumani Mavhungu	DME - Assistant Director	(011) 358 9770	(011) 399 1858		shumani.mavhungu@dme.gov.za
Mr Mmbonisene Ndou	DME - Assistant Director	(011) 358 9770	(011) 339 1858		mmboniseni.ndou@dme.gov.za
Ms Nqobile Njoko	DME - Assistant Director	(011) 358 9700	(011) 339 1858		nqobile.njoko@dme.gov.za
Mr Solomon Tsheki	DWAF	(012) 336 7500			
Ms Malethabo Ramashala	DWAF	(012) 392 1375	(012) 392 1359	082 908 3177	ramash1@dwaf.gov.za
Mr Ephraim Ramatseba	DWAF - Assistant Director	(012) 392 1371	(012) 392 1359	082 809 5727	matsebe@dwaf.gov.za
Ms Nikki Naidoo	GDACE	(011) 355 1900	(011) 337 2292	082 330 9510	
Mr Gerson Nethavhani	GDACE	(011) 355 1836		082 680 6416	Gerson.Nethavahani@gauteng.gov.za
Ms Yaru Naidu	GDACE	(011) 355 1836			Yaru.Naidu@gauteng.gov.za
Ms Nketu Lesejane	GDACE	(011) 355 1554	(011) 355 1000		nketu.lesejane@gauteng.gov.za
Mr D van Graan	DEAT	(011) 823 1600			
Mr Pirate Ncube	DEAT				
Mr Sizwe Matshikiza		(011) 355 1900	(011) 355 1000	082 778 9996	sizwe.matshikiza@gauteng.gov.za
Ms Florance Radebe	Rand Water - Environmental Advisor	(011) 682 0771	(011) 682 0765	082 389 2233	fradebe@randwater.co.za
***	Rand Water - Risk Control Manager	(011) 682 0552	(011) 682 0765		
Ms Ntombekaya Xiva	Dept. of Public Works - Director	(011)355 2872	(011) 355 2715	082 906 0820	ntombekayax@gpg.gov.za
Ms Jeniffer Kito	South African Heritage Authority	****	(011) 481 2727		jkotto@jhb.sahra.org.za
Ms Busiswa Gcadinja	Prov.Heritage Resource Authority of Gauteng (PHRAG)	(011) 355 2501	(011) 355 2541	083 296 2400	busiswag@gpg.gov.za
Ms Elsabe Brink	Prov.Heritage Resource Authority of Gauteng (PHRAG)	(011) 837 2247		083 348 8080	eabrink@telkomsa.net
Ms Paulinah Maepa	Regional Manager - Health CoJ Region B	(011) 718 9656	(011) 718 9760		paulinah@joburg.org.za
Mr Floris Visser	Health Officer (City of Johannesburg) Region B	(011) 226 8300	(011) 474 6707	082 559 3762	
Ms Flo Bird	Parktown and Westcliff Heritage Trust	(011) 482 3349	(011) 482 7807		
Mr Neil Fraser	Johannesburg Heritage Trust	(011) 327 4969	(011) 447 8504	083 456 0342	neil@urbaninc.co.za
Mr Johan Bruwer	SA National Roads Agency	(012) 426 6200	(011) 348 0883	083 283 6053	bruweri@nra.co.za
Mr Vincent Maberuka	Johannesburg Roads Agency (Regional)	(011) 618 3430	(011) 618 2994	082 371 7166	v.maberuka@ira.org.za
Ms Joan Mnisi	Johannesburg Roads Agency (Regional)	(011) 618 3430	(011) 618 2994	082 561 0304	j.mnisi@ira.org.za
Ms Kirsten Harrison	Johannesburg Development Agency	(011) 688 7841			
Mr Nic Van Deventer	Environmental Health	(011) 407 6796	(011) 339 2866	082 559 3763	nicv@joburg.org.za
Mr Gideon Slabbert	Environmental Manager (Senior)	(011) 407 6445	(011) 403 4142	082 559 3719	Gslabbert@joburg.org.za
Ms Jane Eagle	City of Johannesburg	(011) 407 6727	(011) 403 4142		Jane@joburg.org.za
Mr Vusi Madi	City of Johannesburg	(011) 986 0194	(011) 986 0319		Vusima@joburg.org.za
Ms Samukelisiwe M	Environmental Planning (Manager) - CoJ	(011) 407 6750	(011) 339 1885		samukelisiwem@joburg.org
Ms Flora Mokgohloa	Environmental Planning (Director) - CoJ	(011) 407 6750	(011) 339 1885	082 559 3750	floram@joburg.org.za
Sanmari Nel	Development & Planning (Manager)- CoJ	(011) 407 6912	(011) 339 1547		sanmarin@joburg.org.za
Simphiwe Gabuza	Development & Planning (Officer)- CoJ	(011) 407 6890	(011) 339 1547		simphiweq@joburg.org.za
Ms Londiwe Mthembu	Development & Planning (Officer) - CoJ	(011) 407 6936	(011) 339 1547		londiwem@joburg.org.za
Mr Eric Itskip	Heritage Assessment Officer				
Mr Tiaan Elhers	Environmental Planning (Director) - CoJ				tiaane@joburg.org.za
Mr Nkosinathi Mthethwa	Director of Region 8F- CoJ	(011) 376 8512	(011) 376 8568		
Mr Jabulani Sithole	Health and Community Officer -CoJ	(011) 213 0019	(011) 885 1420		Jabulani@joburg.org.za
Mr Daniel Letlhage	Environmental Health - CoJ	(011) 986 0202	(011) 986 0319		Danl@joburg.org.za
Mr Prince Mkhonto	Environmental Health -CoJ	(011) 933 2422	(011) 989 8213		
Ms Lizette Van Zyl	Health Department - CoJ	(011) 681 8060	(011) 681 8211	082 467 9434	lizettev@joburg.org.za
Ms Corrie Berzedenhout	Health Department - CoJ	(011) 681 8060	(011) 681 8211		corrieb@joburg.org.za
Margot Richardson	Climatology - CoJ	(011) 407 6749	(011) 403 4142		marqotr@joburg.org.za
Oupa Montsioa	Health Department - CoJ	(011) 681 8130	(011) 681 8205	082 467 9423	oupamont@joburg.org.za

Appendix C

Presentation



CGR GOLD RECOVERIES


**City Deep
EMPR Upgrade Process**

Authorities Meeting

Henry Gouws
General Manager
Crown Gold Recoveries
(Pty) Ltd

Graham Trusler
Director
DWA

5 September 2007




Agenda

- § Welcome and introduction
- § Apologies and proxies
- § Attendance register
- § Introduce project team
- § Objectives of the meeting

- § Background to CGR's operations
- § Project process
- § Environmental investigations
- § Social aspects
- § Open discussion and question forum
- § Conclusion


2



Welcome and Introduction

- § Apologies and proxies
- § Attendance register
- § Project team
 - § Louis Kleynhans – CGR Environmental Manager
 - § Henry Gouws – CGR General Manager
 - § Graham Trusler – Digby Wells & Ass (DWA) Project Coordinator
 - § Helen Knight – DWA Public Participation Process
 - § Banyana Kolobe – DWA Public Participation Process


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Objectives

- § Introduce the project team to regulating authorities
- § Build a long-term and positive relationship between CGR & authorities
- § Ensure open and transparent communication
- § Describe the processes followed to date
- § Allow authorities to put forward requirements and preferences
- § Record issues and concerns upfront
- § Agree on a way forward with regard to the EMPR upgrade process


4



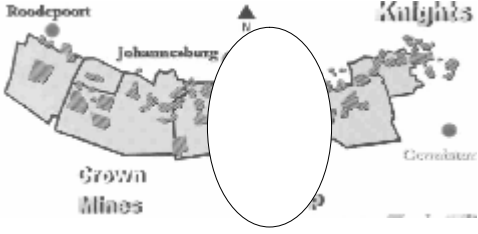
Background to CGR's Operations

- § CD is a wholly owned subsidiary of Crown Gold Recoveries (Pty) Ltd
- § Currently has three operating plants:
 - § Crown Mines
 - § **City Deep**
 - § Knights
- § Crown Mines commenced operations in 1982
- § City Deep was commissioned in 1986
- § To date 23 dumps successfully reclaimed
- § Unlocked over 250ha of land for redevelopment
- § DRD as a whole employs ~511 full time and ~465 contracted workers
- § Crown/City Deep/CGR has 3 years of life remaining
- § Crown/City Deep/CGR located in the City of Johannesburg Metropolitan

5

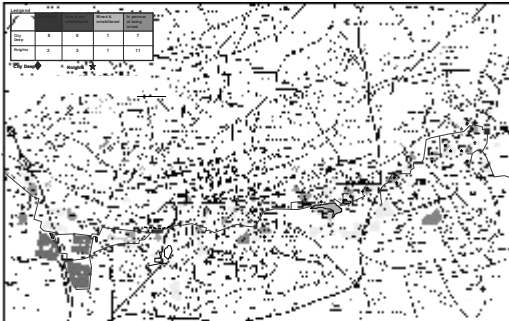


Background cont.



6

Background cont.



Background cont.

Sand dump Reclamation

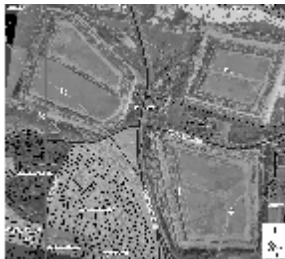
- § Reclamation of sand by front end loader
- § Mixed with water and pumped to plant
- § Milled to liberate gold
- § Gold extracted by use of lime, cyanide and carbon adsorption
- § Tailings deposited on the three tailings dams
- § Water decanted from tailings dam, returned to the operation



Background cont.

Slime reclamation

- § Reclaimed with high pressure water
- § Pumped to plant
- § Gold extracted by use of lime, cyanide and carbon adsorption
- § Tailings deposited on the three tailings dams
- § Water decanted from tailings dam, returned to the operation



Background cont.

Environmental Management

- § Concurrent rehabilitation of current reclamation areas
- § Rehabilitation of previously reclaimed areas
- § Active vegetation of tailings dam side slopes
- § Extensive dust monitoring programme
- § Quarterly Dust Forum Meeting (with IAPs and authorities)
- § Conforms to regulatory requirements regarding water use and discharge
- § Slimes dam construction and supervision by Fraser Alexander Tailings
 - § In-house technical ability
 - § In-house rehabilitation expertise
- § Conforms to all National Nuclear Regulator requirements

Project Process

- § EMPRs for each site were approved in terms of the Minerals Act:
 - § Crown Mines – January 1995
 - § City Deep – June 1996
 - § Knights – July 2001
- § The MPRDA requires that these documents be upgraded
- § Upgrade process will result in the compilation of:
 - § Environmental Impact Assessment (EIA)
 - § Environmental Management Programme (EMP)
- § Public participation is an integral part of the process
- § Final documents to be submitted in December 2007

Environmental and Social Aspects

- § Determine characteristics of existing natural and social environment
 - § Approved EMPR
 - § New investigations
- § Determine impacts associated with operations to date
- § Determine likely future impacts
- § Discuss impacts associated with closure and rehabilitation
- § Develop mitigation measures for impacts

Identified Impacts



- § Positive impacts identified to date:
 - § Employment opportunities created for over 976 people
 - § Removal of dumps may remove environmental hazards
 - § Key urban land unlocked for development
 - § Contribution to local and national economy
 - § Involvement in Local Economic Development of communities
- § Negative impacts identified to date:
 - § Dust pollution during reclamation
 - § Heritage impact
 - § Potential for noise pollution during reclamation
 - § Possible increased water pollution
 - § Loss of employment during closure
 - § Potential for sites to be left vacant

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Mitigation of Impacts



- § Enhance positive impacts:
 - § Social and Labour Plan implementation during operation
 - § Proper rehabilitation of reclaimed dump sites
- § Mitigate or avoid negative impacts:
 - § Comprehensive dust mitigation measures
 - § Water sprayers (irrigation system)
 - § Sealing exposed faces with dust suppressant (AvoBond)
 - § Watering haul roads
 - § Delimited operational areas
 - § Mining direction with regard to predominant wind
 - § Implement Social and Labour Plan

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Public Participation Process



- § Identification of three main stakeholder groups:
 - § Regulating authorities
 - § Affected parties (residing adjacent to the dumps)
 - § Interested parties
- § Compilation of information material
 - § Background Information Document
 - § Posters
 - § Advertisements
 - § Letters of invitation
- § IAP notification
 - § Telephone liaison with authorities and affected parties
 - § Erection of site notices
 - § Publish advertisement in local and national newspapers

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Public Participation Process Cont.



- § IAP engagement
 - § One authorities meetings
 - § Micro-consultation where necessary
 - § Information sharing meeting
- § IAP feedback process
 - § All minutes and memos distributed to IAPs for comment
 - § Draft PPP Report displayed for comment over 30 days
 - § Draft EIA/EMP Report displayed for comment over 30 days

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Conclusion



- § DRD Gold is committed to responsible environmental management
- § DRD Gold is committed maintaining sound I&AP relationships
- § DRD Gold is committed to the responsible closure of its operations
- § The upgraded EIA/EMP will be submitted in December 2007
- § A full PPP has been undertaken for the project
- § Ongoing communication with IAPs is vital to the project's success

17

Open Discussion Forum



18



Environmental Solutions Provider
Co. Reg. No. 1999/05985/07

Digby Wells & Associates (Pty) Ltd
Fern Isle; Section 9
359 Pretoria Ave
Private Bag X10046
Randburg; 2125
South Africa
Tel: +27 11 789 9495
Fax: +27 11 789 9498
Email: info@digbywells.co.za

23 October 2007

Dear Sir/ Madam

**DRAFT MEETING NOTES FROM THE INFORMATION SHARING MEETING
WITH THE PUBLIC ON THE UPGRADE OF THE CITY DEEP ENVIRONMENTAL
MANAGEMENT PROGRAMME REPORT (EMPR)**

An information sharing meeting was held at The Heritage Conference Centre on Wednesday, 5 September 2007 with identified stakeholders for the upgrade of the City Deep EMPR. The objectives of this meeting were to disseminate project related information and also allow participants to voice their issues, concerns and suggestions.

Attached, please find a copy of the draft meeting notes for your perusal and comment. Issues that were identified at this meeting will be investigated as part of the Environmental Impact Assessment (EIA) process, and will be included in the relevant specialist studies that are currently in progress.

Kindly review these minutes and submit any comments to Banyana Kolobe at Digby Wells and Associates by no later than **20 November 2007**. Should no comments be received, these minutes will be regarded as the final minutes.

Comments can be forwarded to:

Banyana Kolobe
Digby Wells & Associates
Private Bag X 10046
Randburg, 2125
South Africa
Tel: +27 11 504 1443
Fax: +27 86524 5588
Email: banyana@digbywells.co.za

DWA would like to take this opportunity you for your participation in this project and look forward to your continued involvement.

Yours sincerely

H Knight
Public Participation Practitioner

DRAFT NOTES
INFORMATION SHARING MEETING
FOR THE
UPGRADE OF THE CITY DEEP EMPR

DATE: WEDNESDAY, 5 SEPTEMBER 2007

TIME: 18:15 – 18:45

VENUE: THE HERITAGE CONFERENCE CENTRE

ATTENDEES AND APOLOGIES

A register of all attendees is presented in Appendix A.

The contact details for the public consultation team are presented in Table 1.

Table 1: PUBLIC CONSULTATION TEAM AND APOLOGIES

PUBLIC CONSULTATION TEAM			
NAME	ORGANISATION	TEL	FAX
Helen Knight (HK)	Digby Wells & Associates (DWA) Public participation practitioner	(011) 504 1438	086 502 8680
Banyana Kolobe (BK)	DWA Public participation	(011) 504 1443	086 524 5588
Henry Gouws (HG)	Crown Gold Recoveries (CGR) General Manager	(011) 248 9000	
Louis Kleynhans (LK)	CGR Environmental manager	(011) 248 9000	(011) 835 2922 082 777 3413
Apologies			
Graham Trusler (GT)	Digby Wells & Associates Project manager	(011) 789 9495	(011) 789 9498

WELCOME AND INTRODUCTION

HG welcomed everybody to the meeting and introduced the DWA and CGR team to the attendees. Please refer to **Error! Reference source not found.** for a copy of the presentation.

AGENDA

HG proposed an agenda shown in slide 2, which was accepted by those present.

MEETING OBJECTIVES

HG presented the objectives of the meeting as follows:

- Introduce the project team to Interested and Affected Parties (IAPs)
- Build a long-term and positive relationship between CGR and IAPs
- Ensure open and transparent communication
- Describe the processes followed to date
- Record issues and concerns
- Agree on a way forward with regard to the EMPR upgrade process

The purpose of this meeting was to introduce the City Deep Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) to IAPs and to record all relevant issues and concerns. These issues and concerns can then provide input into the broader environmental studies that are being undertaken.

PROJECT BACKGROUND

A detailed project background was discussed by HG as shown in slides 5 – 16.

PUBLIC INVOLVEMENT PROCESS

HK discussed the public involvement that is required as part of the EIA process, the public participation objectives and tasks that had been undertaken to date.. Refer to slides 16 – 17.

DISCUSSIONS AND QUESTIONS OF CLARIFICATION

Questions, issues of concern and comments discussed during the meeting are presented in Table 2.

CLOSURE

HG thanked everybody for their time and effort in attending the meeting. The meeting was officially closed at 18:45

TABLE 2: DISCUSSION OF ISSUES, CONCERNS AND COMMENTS

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
Project Specific			
Closure	Brian Dawson: EMPR Services	Enquired as to when the reclamation of the Mennels dump would be completed.	Responded that the intention is that operations will be completed by the year 2009. This 36 month period may, however, be extended.
	Brian Dawson: EMPR Services	Enquired whether there would be a tapering off towards closure, and if so, was this based on the price of gold.	Responded that there would be a tapering off period of approximately twelve months, added that this was based on the City Deep reserves.
Implementation and management	Brian Dawson: EMPR Services	Suggested that all environmental management issues should be addressed and management plans implemented.	Replied that environmental issues will be addressed in the management plans implemented.
	Andrew Barker: iProp Development Consultant	Proposed that the project Hloekisa needs to be recognized and acknowledged in principle with respect to the environmental cleanup of the mining land and its contribution to urban development. Added that it is also important that the various land and mining companies involved in the area worked closely together to ensure the coordinated cleanup of the mining land and look for opportunities for working together with respect to the realisation of this project.	Point noted.
Social Issues			
Social responsibility	Andrew Barker: iProp Development Consultant	Enquired whether discussions had been initiated with the City of Johannesburg with respect to the integration of the Social and Labour Plan into the City of Johannesburg IDP.	The point was noted and it was stated that CGR is aware that this is an important legislative requirement which they would adhere to.
	Andrew Barker: iProp Development Consultant	Stated that the initiation of Regional Mining Forums by the DME and the importance of participation and engagement with respect to Social and Labour Plan development and implementation are essential. Added that for the DME, it was imperative for	Responded that the company's Social and Labour Plan will certainly incorporate community involvement.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
		municipalities and the land and mining companies to coordinate and integrate investment for local social and economic development to ensure substantive contribution to sustainable human settlement.	
	Andrew Barker: iProp Development Consultant	<p>Stated that iProp need the mining right owners to keep contact in with them:</p> <ul style="list-style-type: none"> • iProp recognised that environmental management issues are vital; • Social Labour Plan should be implemented in conjunction with the Council/Metro; • iProp initiated the East to West Corridor and was going to submit this document to the Council to approve or at least make them aware of its existence; • Riverlea area is mainly residential and redevelopment should be conducted in such a manner that the suburb will be rejuvenated and the final land should include functions which will attract further investment in keeping with the City of Johannesburg's Development Plans; and • The SLP should be integrated following the legislation requirements and the approach must include the Council (City of Johannesburg). The concept and principle need to be included in the process and there must also be a capacity of giving back to the communities. <p>I-Prop, as the freehold owners of the land below the reclaimed dams and sand dumps as well as surrounding land, are offering themselves as interested stakeholders and are willing to participate in the whole operations.</p>	Point noted.

Focus of Issue/ concern	Issue/ concern raised by:	Summary of issues and comments	Response/ Mitigation plan
Public Participation Process			
Consultation	Andrew Barker: iProp Development Consultants	Noted concern at lack of direct notification of application and invitation to become an interested and affected party as holders of freehold and prospecting rights in the areas. This also applied to the Crown Mines area which had been applied for previously in 2006 of which no notification was received. In view of the fact that there are overlapping rights it will be of critical importance that the involved companies worked closely together with regards to the various land and mining resources that are available.	Replied that all identified stakeholders are kept informed about the progress of the whole operation from outset to the finish. iProp's continued participation would be greatly appreciated to ensure that the operation is a success. Regular liaison meetings are held with IProp.
Apologies	Andrew Barker: iProp Development Consultants	Made apologies for the meeting for the Knights application that was to take place the following evening (Thursday 06 September 2007) and requested that the above issues be noted for that application also.	

Appendix A

Attendance register



ATTENDANCE REGISTER

FOR

CITY DEEP EMPR UPGRADE PROJECT

INFORMATION SHARING MEETING

Public

Wednesday, 5 September 2007

NAME	ORGANISATION/ DESIGNATION	POSTAL ADDRESS	CONTACT DETAILS
1. HELEN KNIGHT	DWA	P/BAG X 10046 RANDSBURG 2125	Tel: 011 504 1438 Cell: 08 325 77117 Fax: 011 785 9498 Email: h.knight@dwa.co.za
2. Henry Gouws	GGR		Tel: Cell: Fax: Email:
3.			Tel: Cell: Fax: Email:
4.			Tel: Cell: Fax: Email:
5.			Tel: Cell: Fax: Email:
6.			Tel: Cell: Fax: Email:

NAME	ORGANISATION/ DESIGNATION	POSTAL ADDRESS	CONTACT DETAILS
1. Bangana Kolobe	Digbywells & Associates	Private Bag X10046 Randburg 2105	Tel: (011) 789 9495 Cell: (011) 789 9495 395 2951 Fax: (011) 789 9495 Email: bangana@digbywells.co.za Tel: 0822773413 Fax:
3. Louis Kueyuanas	CGR	P. Bag X12 Rosebank 230	Email: louis.kueyuanas@22.madison.com Tel: 011-435-0372 Cell: 082-565-0305 Fax: 011-436-2689 Email: louis.dawson@infoc.com
4. ANDREY BARKER	ANDREY BARKER GENERALIST CONSULTANT	PO BOX 1073 MONTEON 2110	Tel: 011 680 9791 Cell: 011 680 9791 Fax: 083 274 4424 Email: andre.barker@22.co.za
5. H.N. Grouws	CGR		Tel: Cell: Fax: Email:
6.			Tel: Cell: Fax: Email:

Appendix B
Presentation



CGR Gold SA

City Deep EMPR Upgrade Process

Information Sharing Meeting

Henry Gouws
General Manager
Crown Gold Recoveries
(Pty) Ltd

Graham Trusler
Director
DWA

5 September 2007



Agenda

- § Welcome and introduction
- § Apologies and proxies
- § Attendance register
- § Introduce project team
- § Rules of proceedings
- § Objectives of the meeting

- § Background to CGR's operations
- § Project process
- § Environmental investigations
- § Social aspects
- § Open discussion and question forum
- § Conclusion

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Welcome and Introduction



- § Apologies and proxies
- § Attendance register
- § Project team
 - § Louis Kleynhans – CGR Environmental Manager
 - § Henry Gouws – CGR General Manager
 - § Graham Trusler – Digby Wells & Ass (DWA) Project Coordinator
 - § Helen Knight – DWA Public Participation Process
 - § Banyana Kolobe – DWA Public Participation Process

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Rules of Proceedings



- § Please hold all questions until the end of the presentation
- § Please raise your hand when wishing to ask a question
- § Direct all questions through the chairperson
- § State your name and organisation clearly for the record

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Objectives



- § Introduce the project team to IAPs
- § Build a long-term and positive relationship between CGR and IAPs
- § Ensure open and transparent communication
- § Describe the processes followed to date
- § Allow IAPs to raise issues and concerns
- § Record issues and suggestions so that they may be addressed
- § Discuss the way forward with regard to the project

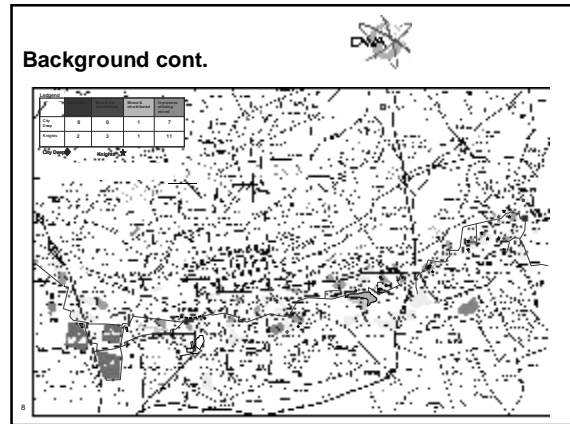
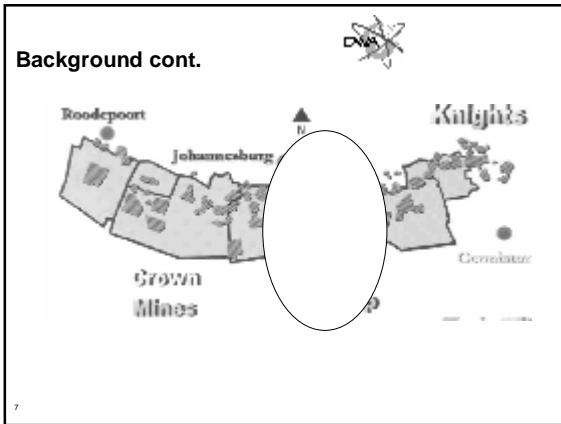
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Background to CGR's Operations



- § CD is a wholly owned subsidiary of Crown Gold Recoveries (Pty) Ltd
- § Currently has three operating plants:
 - § Crown Mines (including CMR)
 - § **City Deep**
 - § Knights
- § Crown Mines commenced operations in 1982
- § City Deep was commissioned in 1986
- § To date 23 dumps successfully reclaimed
- § Unlocked over 250ha of land for redevelopment
- § CGR as a whole employs ~51 full time and ~465 contracted workers
- § Crown/City Deep/CGR has 3 to 4 years of life remaining
- § Crown/City Deep/CGR located in the City of Johannesburg Metropolitan

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Background

Sand dump Reclamation

- § Reclamation of sand by front end loader
- § Mixed with water and pumped to plant
- § Milled to liberate gold
- § Gold extracted by use of lime, cyanide and carbon adsorption
- § Tailings deposited on the three tailings dams
- § Water decanted from tailings dams, returned to the operation

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Background cont.

Slime reclamation

- § Reclaimed with high pressure water
- § Pumped to plant
- § Gold extracted by use of lime, cyanide and carbon adsorption
- § Tailings deposited on the three tailings dams
- § Water decanted from tailings dam, returned to the operation

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Background cont.

Environmental Management

- § Concurrent rehabilitation of current reclamation areas
- § Rehabilitation of previously reclaimed areas
- § Active vegetation of tailings dam side slopes
- § Extensive dust monitoring programme
- § Quarterly Dust Forum Meetings (with IAPs and authorities)
- § Conforms to regulatory requirements regarding water use and discharge
- § Slimes dam construction and supervision by Fraser Alexander Tailings
 - § In-house technical ability
 - § In-house rehabilitation expertise
- § Conforms to all National Nuclear Regulator requirements

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Project Process

- § EMPRs for each site were approved in terms of the Minerals Act:
 - § Crown Mines – January 1995
 - § **City Deep – June 1996**
 - § Knights – July 2001
- § The MPRDA requires that these documents be upgraded
- § Upgrade process will result in the compilation of:
 - § Environmental Impact Assessment (EIA)
 - § Environmental Management Programme (EMP)
- § Public participation is an integral part of the process
- § Final documents to be submitted in December 2007

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Environmental and Social Aspects

- § Determine characteristics of existing natural and social environment
- § Approved EMPR
- § New investigations
- § Determine impacts associated with operations to date
- § Determine likely future impacts
- § Discuss impacts associated with closure and rehabilitation
- § Develop mitigation measures for impacts

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Identified Impacts

- § Positive impacts identified to date:
 - § Employment opportunities created for over 976 people
 - § Removal of dumps may remove environmental hazards
 - § Key urban land unlocked for development
 - § Contribution to local and national economy
 - § Involvement in Local Economic Development of communities
- § Negative impacts identified to date:
 - § Dust pollution during reclamation
 - § Heritage impact
 - § Potential for noise pollution during reclamation
 - § Possible increased water pollution
 - § Loss of employment during closure
 - § Potential for sites to be left vacant

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Mitigation of Impacts

- § Enhance positive impacts:
 - § Social and Labour Plan implementation during operation
 - § Proper rehabilitation of reclaimed dump sites
- § Mitigate or avoid negative impacts:
 - § Comprehensive dust mitigation measures
 - § Water sprayers (irrigation system)
 - § Sealing exposed faces with dust suppressant (AvoBond)
 - § Watering haul roads
 - § Delimited operational areas
 - § Mining direction with regard to predominant wind
 - § Implement Social and Labour Plan during retrenchment

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Public Participation Process

- § Identification of three main stakeholder groups:
 - § Regulating authorities
 - § Affected parties (residing adjacent to the dumps)
 - § Interested parties
- § Compilation of information material
 - § Background Information Document
 - § Posters
 - § Advertisements
 - § Letters of invitation
- § IAP notification
 - § Telephone liaison with authorities and affected parties
 - § Erection of site notices
 - § Publish advertisement in local and national newspapers

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Public Participation Process Cont.

- § IAP engagement
 - § Two authorities meetings
 - § Micro-consultation where necessary
 - § Information sharing meeting
- § IAP feedback process
 - § All minutes and memos distributed to IAPs for comment
 - § Draft PPP Report displayed for comment over 30 days
 - § Draft EIA/EMP Report displayed for comment over 30 days

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Conclusion

- § DRD is committed to responsible environmental management
- § DRD is committed maintaining sound I&AP relationships
- § DRD is committed to the responsible closure of its operations
- § The upgraded EIA/EMP will be submitted in December 2007
- § A full PPP has been undertaken for the project
- § Ongoing communication with IAPs is vital to the project's success

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Open Discussion Forum



- § Please raise your hand when wishing to ask a question
- § Direct all questions through the chairperson
- § State your name and organisation clearly for the record

REGISTRATION & COMMENTS SHEET

CITY DEEP EMPR UPGRADE PROJECT

It is important that we gain an understanding of your perceptions and concerns regarding the City Deep EMPR Upgrade Project. Please complete this form so that your views can be taken into account, and so that you may be registered as an Interested and/or Affected Party. This form will ensure that you receive all further information/documentation regarding the project.

Please email, fax or post the form to:

Email: helen@digbywells.co.za
 Fax: 086 502 8680
 Postal: Private Bag X10046, Randburg, 2125

1. Name and contact details

Name: (Title, Full Names and Surname)	
Mr Brian L Dawson	
Organisation: (if applicable, otherwise state private individual)	
EMPR Services (Pty) Ltd	
Telephone number:	011-435-0372
Fax number:	011-436-2689
Cell number:	082-565-0305
Email address:	Brian.dawson@iafrica.com
Postal address:	Private Bag X12,
	Rosettenville,
	2130
Physical address:	No. 4 Shaft Offices
	Marjorie Street Extension
	City Deep, Johannesburg

2. Perceptions and concerns

What positive impacts do you feel are currently associated with the Knights operation?
Potential for significant improvement in pollution to ground and surface water from rehabilitated TSF footprints where complete removal of sand / slimes is carried out, and proper rehabilitation of the site is undertaken.
Freeing up of derelict waste land for potential development, and income generation.
Reduction of potential for invasion of land areas by vagrants and squatters, once land has been cleared and then developed.

<i>What negative impacts do you feel are currently associated with the Knights operation?</i>
Dust generation during reprocessing operations (nuisance dust and environmental degradation).
Destruction of (albeit poor quality) biophysical habitat where TSFs were vegetated prior to reprocessing occurring.
Potential for land and water pollution from tailings spillages, pipe bursts, etc.
Negative impacts of new Tailings Storage Facility/s developed to take the tailings residue, wrt land sterilisation, ground and surface water pollution, dust generation once dry.
<i>Do you have any other general comments related to Knights or its EMPR upgrade process?</i>

Please note that the Public Participation Process and gathering of perceptions and concerns is not limited to the abovementioned, and will include further meetings and consultations.

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Email: helen@digbywells.co.za
 Fax: 086 502 8680
 Postal: Private Bag X10046, Randburg, 2125

1. Name and contact details

Name: (Title, Full Names and Surname)	
Mr. Gideon Stabber	
Organisation: (if applicable, otherwise state private individual)	
City of Johannesburg	
Telephone number:	011-4076445
Fax number:	011-4034142
Cell number:	0825593719
Email address:	gideonst@joburg.org.za
Postal address:	PO Box 30733
	Braamfontein
	2017
Physical address:	158 Loveday Street
	Braamfontein
	GAB

2. Perceptions and concerns

What positive impacts do you feel are currently associated with the City Deep operation?

<i>What negative impacts do you feel are currently associated with the City Deep operation?</i>
<i>Do you have any other general comments related to City Deep or its EMPR upgrade process?</i>

Please note that the Public Participation Process and gathering of perceptions and concerns is not limited to the abovementioned, and will include further meetings and consultations.

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Email: helen@digbywells.co.za
 Fax: 086 502 8680
 Postal: Private Bag X10046, Randburg, 2125

1. Name and contact details

Name: (Title, Full Names and Surname)	
Mr Nicholaas Paul van Deventer	
Organisation: (if applicable, otherwise state private individual)	
Assistant Director: Environmental Health, Health Department, City of Johannesburg	
Telephone number:	011 407 6796
Fax number:	011 403 0201/ 011 339 2866
Cell number:	082 559 3763
Email address:	nicv@joburg.org.za
Postal address:	P.O. Box 31244, Braamfontein, 2017
Physical address:	4 th Floor, B- Block, Metropolitan Centre, 158 Loveday Street, Braamfontein, Johannesburg

2. Perceptions and concerns

What positive impacts do you feel are currently associated with the City Deep operation?
Very little except that the mine dump problems are removed from a problematic site but to create problems at another location.

<i>What negative impacts do you feel are currently associated with the City Deep operation?</i>
Environmental health impacts affecting the health and well- being of people.
Environmental impacts affecting the quality of air, land (soil) and water (surface and ground water) and silting of water courses.
Economical impacts such as medical costs, damage to property e.g. repainting of buildings, cost to clean properties, soiling of clothing, etc., cost to rehabilitate land and water courses (desilting) and escalating costs to purify water for drinking purposes.
Non- compliance with National, Provincial and City of Johannesburg legislation e.g. Public Health By- laws impacting on good governance
<i>Do you have any other general comments related to City Deep or its EMPR upgrade process?</i>
Increasing public, political and community pressure has to be addressed and minimized in the process.
Compliance to legislative provisions and requirements (National, Provincial and Local Government) is of vital importance as it encourages trust in governments and sets good examples to our citizens.

Please note that the Public Participation Process and gathering of perceptions and concerns in not limited to the abovementioned, and will include further meetings and consultations.