



## Clean Stream Company Profile

November 2008

---

[www.cleanstream.co.za](http://www.cleanstream.co.za)

The **Clean Stream** group of companies was started in 1996 as a Pretoria-based environmental consulting firm with the vision of revolutionising the way environmental monitoring, measurement and evaluation was done for the protection of the environment.

A number of young scientists and Clean Stream employees shared this vision and joined together since 1996 to form a robust structure of separate staff-owned business entities known as the Clean Stream Group of Companies. This non-corporate and relaxed structure allowed key employees and handpicked associates to become business-owners and afforded them the opportunity to optimise their own skills with the incentive of shared earnings.

These highly skilled young individuals thrived on the many challenges and difficulties that we faced during the turbulent period of environmental law reforms since 1996. Innovative environmental management tools, techniques and methods are now continuously being developed along with our partners (clients). This approach facilitates the unravelling of complex and often indirect environmental consequences of human development.

The Clean Stream Group has now grown into a proud organisation that employs more than 40 carefully selected scientists possessing a range of skills and expertise. These skills are employed in an interactive and inclusive approach where development proposals of our clients take into account the scope and scale of environmental and human issues along with its interconnections. The Clean Stream client list is extensive with the various environmental services now offered to most of the small, medium and large mining companies and industries in Southern Africa.

*A true leader is not the one with the most followers, but the one who creates the most leaders...*



*We have to understand that we can never control Nature. Nature's systems are far, far too complex. But we can attempt to manage them (Charles Secrett).*

## Company structure

---

**Clean Stream** consists of a number of corporations and one company. These entities are not subsidiaries to a single parent company but operate as independent entities under the **Clean Stream** umbrella. They are all linked through collective ownership and/or the **Clean Stream** name.

This ownership structure allows the empowerment of scientists to apply and develop their skills and expertise. It also creates the basis for combining a multiple of environmental disciplines into a cohesive scientific body that seeks solutions within an ecological, social and financial framework.

The companies that operate within the **Clean Stream** structure are:

- ◇ Clean Stream Environmental Consultants cc
- ◇ Clean Stream Scientific Services (Pty)
- ◇ Clean Stream Biological Services cc
- ◇ Clean Stream Environmental Services – Coalfields cc
- ◇ Terra Soil cc

These companies each has their own vendor details and can provide cost estimates and tenders on an individual basis or collectively with one company being the lead vendor. Our flexible administrative system allows us to cater for each of our client's unique procurement requirements.

## Company mission

---

To provide a comprehensive range of environmental solutions in the quest for sustainable development, the maintenance of ecological integrity and biodiversity as well as the improvement of ecologically degraded environmental systems.

## Company vision

---

It is our vision to continuously empower young scientists within the non-corporate environment of the Clean Stream group of companies in order to meet and overcome the increasingly complex environmental challenges that humanity will have to deal with in years to come. We will aim to provide a comprehensive range of scientific services with the objective to provide environmental guidance in development processes where risks can be avoided, opportunities are optimised and adverse effects are mitigated.

*This company belongs to future generations...*



*Simplicity is the result of a tremendous amount of thought...*

## Services

---

**Clean Stream** operates from a number of offices in Pretoria, Malelane, Still Bay and Witbank. At the moment the geographical area within which we provide our services extend over all nine provinces of South Africa. Apart from some *ad hoc* work, Clean Stream will only extend its services into Africa and abroad after the company has gathered adequate capacity to still provide a superior service to our loyal local clients.

Our team consist of several senior scientists as managing members, which are supported by a host of qualified and experienced scientists, engineers, field technicians and administrative personnel. A collective character that we seek in our team is young, innovative and gifted people that take pride in their work.

**Clean Stream** has also been able to build numerous associations with other consulting firms and individuals that enhance our products where the skills required do not necessarily lie within our organisation. The services of these firms are managed and combined with our products to provide a full environmental service to our clients.

Our client list is extensive and includes mining houses, mining operations, small, medium and large industries, government departments, local authorities, developers and other smaller entities. Some of the major companies that are included in our client list are:

- ◇ AEL
- ◇ Anglo Coal
- ◇ Anglo Gold
- ◇ Anglo Platinum
- ◇ De Beers
- ◇ Exxaro
- ◇ Kumba Resources
- ◇ Palabora Mining Company
- ◇ Sasol
- ◇ Xstrata Alloys
- ◇ Xstrata Chrome
- ◇ Xstrata Coal

Our services and products are tabled below with the relevant Clean Stream company and contact person.

*Revenue is an eventual outcome of quality of service and applying good principles...*



*Success is more a function of consistent common sense than it is of genius...*

<b>Clean Stream Environmental Consultants</b>
Contact person: Blanché Postma
Basic Assessment Report (NEMA)
Scoping reports (mining under NEMA and MPRDA)
Scoping reports (industries and developments under NEMA)
Environmental Impact Assessment (mining under NEMA and MPRDA)
Environmental Impact Assessment (industries and developments under NEMA)
Environmental Management Program (or Plan) (mining under NEMA and MPRDA)
Environmental Management Plans (industries and developments under NEMA)
Environmental Risk Assessments
Integrated Water Use Licence Application (under NWA)
Integrated Water and Waste Management Plan (Report) in terms of the DWAF Best Practice Guidelines
Water Management Strategy (Planning, engineering design, water and salt balance)
Hydrological investigation
Mine Closure application (under MPRDA)
Environmental engineering solutions and designs
Rehabilitation of mines and mine waste facilities – planning, design and management strategy
Rehabilitation of mines and mine waste facilities – site rehabilitation, on site engineering supervision, development of as-built designs
Geohydrological investigation (field work, technical assistance, aquifer modelling, ground water pollution prediction and development of management strategy)
Provide on-site environmental management support
Auditing of compliance of mines with the requirements of GN 704, dated 1999,
Environmental Management Programme Performance Assessments / compliance audits (under the MPRDA)
Ambient noise and air quality investigations
Heritage and archaeological investigations (SAHRA)
Ecological studies
Consultation (public participation and authority consultation)

<b>Clean Stream Scientific Services</b>
Contact person: Ryno Erdmann
Water monitoring (field work)
Water monitoring (hydrochemical and bacteriological analyses) *Clean Stream operates a fully SANNAS accredited laboratory at our Garsfontein office in Pretoria
Water monitoring (database management) * Clean Stream develops its own environmental software to manage, verify, assess and protect water quality data.
Water monitoring (reporting) *This service includes monthly management reporting, compliance reporting and annual full assessment and reporting)
Water monitoring (design of GIS-based monitoring program)
Pollution source investigation and river quality profiling
Drinking water monitoring (fieldwork)
Drinking water monitoring (hydrochemical and bacteriological analyses) *Clean Stream operates a fully SANNAS accredited laboratory at our Garsfontein office in Pretoria

*If I have ever made any valuable discoveries,  
it has been owing more to patient attention than to any other talent (Isaac Newton)*



*Quality depends on the quality of the observer...*

<i>*Continue from above</i>
Drinking water monitoring (compliance reporting)
Dust deposition monitoring (fieldwork)
Dust deposition monitoring (gravimetric and composition analyses, environmental and health) <i>*Clean Stream operates a fully SANNAS accredited laboratory at our Garfontein office in Pretoria</i>
Dust deposition monitoring (compliance reporting)
Hydrocensus survey
Borehole pump testing
Borehole quality profiling

<b>Clean Stream Biological Services</b>
Contact person: Brenton Nieuhaus / Dr Piet Kotze
Biomonitoring (habitat assessment and invertebrates (SASS5))
Biomonitoring (fish assessment)
Specialist aquatic assessments
Fauna and flora specialist assessments
Reserve determinations
River health assessments
Toxicology testing
Biodiversity assessments and management plans

<b>Terra Soil</b>
Contact person: Dr Johan van der Waals
Soil survey
Vegetation survey
Agricultural potential survey
Rehabilitation assessment
Soil based wetland delineation
Soil pollution assessment and mitigation plan
GIS mapping
Visual impact assessment

<b>Clean Stream Environmental Consultants: Coalfields</b>
Contact person: Adie Erasmus
Environmental Impact Assessments (Basic Assessment, Scoping Reports, Environmental Impact Reports).
Environmental Management Plans (EMPs).
For further details regarding the services offered by Clean Stream Environmental Consultants: Coalfields, please consult <a href="http://www.cleanstreamsa.co.za">www.cleanstreamsa.co.za</a> .

*Our legacy is our only link to the future...*



*The understanding of the present situation and knowledge of what has happened could only be arrived at if measurements are made...*

## **Laboratory**

---

Clean Stream Scientific Services operates a hydrochemical and microbiological laboratory at the Garsfontein office in Pretoria. The facility is a SANAS Accredited Testing Laboratory, No T0374 governed by ISO17025.

This analytical laboratory takes part in the SANAS accredited SABS Inter-laboratory Testing Scheme (PTS0003) for hydrochemical analyses as well as to the SANAS Accredited Rand Water Proficiency Testing Scheme for Microbiological Laboratories (PTS0002).

Clean Stream offers state of the art technology to deliver fast and accurate results. The software that manages the laboratory has been designed for a turnaround from sample received to results verified and reported of 10 working days. Due to a highly efficient system the current turnaround runs at an average of 5 -6 working days offering our clients a fast and reliable system.

The laboratory offers the following analysis types:

- ◇ Physico – chemical analyses
- ◇ Inorganic analyses – major anions/cations
- ◇ Full metal scan
- ◇ Hydrocarbon analyses
- ◇ Microbiological analyses
- ◇ Waste water analyses
- ◇ Drinking water analyses
- ◇ Environmental health analyses
- ◇ Dust deposition analyses

## **Black Economic Empowerment (BEE)**

---

Clean Stream has studied the principles of BEE and is particularly interested in what contribution the company can make towards social upliftment and the training and empowerment of young black scientists. The corporate nature of most of our clients also requires that Clean Stream must be BEE competitive to fulfil in their preferential procurement obligations.

*We believe that BEE is the unlocking of all of our country's human resources...*



At present until 28 February 2009, all the Clean Stream companies qualify as Exempted Micro Enterprises (EME's) that presents a BEE status of a Level Four Contributor. Looking into the future and believing that Clean Stream will grow at a steady rate, the members of the company has decided that the individual companies must remain as a minimum as Level Four Contributors even if we move into the ambit of Qualifying Small Enterprises (QSE's).

Clean Stream has identified a number of objectives that the company wish to include as an ongoing process as part of its vision and in support of the principles of BEE:

- ◇ Develop Clean Stream's social responsibility not only by providing financial donation but also by deploying the skills and human resources resident within the company in support of social development projects.
- ◇ Promote the employment of young black scientists with a view of providing skills development through formal training and mentorship. Clean Stream wishes to align the company's skills development programme with national requirements and to increase South Africa's scientific resource pool.
- ◇ Instil an awareness and understanding in the company through example and leadership of cultural differences but shared interests and common purpose.
- ◇ Aim for a higher BEE status than a Level Four Contributor and fully support the correct principles underpinning BEE.

## Contact details

---

### Clean Stream Environmental Consultants

<b>Physical address:</b>	433 Durr Street, Waterkloof Glen, Pretoria
<b>Postal address:</b>	P.O. Box 32201, Glenstantia, 0010
<b>Telephone:</b>	012 – 755 6662 / 3 / 4
<b>Fax:</b>	086 684 2089
<b>Contact person:</b>	Blanché Postma
<b>Cell:</b>	082 326 0453
<b>E-mail:</b>	blanche@cleanstream.co.za

### Clean Stream Scientific Services

<b>Physical address:</b>	Jacqueline Drive 489, Garsfontein, Pretoria
<b>Postal address:</b>	P.O. Box 905008, Garsfontein, 0042
<b>Telephone:</b>	012 – 348 2813/4
<b>Fax:</b>	012 – 348 8575



<b>Contact person:</b>	Ryno Erdmann
<b>Cell:</b>	082 493 7885
<b>E-mail:</b>	ryno@cleanstream.co.za

### Clean Stream Biological Services

<b>Physical address:</b>	433 Durr Street, Waterkloof Glen, Pretoria
<b>Postal address:</b>	P.O. Box 95229, Waterkloof, 0145
<b>Telephone:</b>	012-998-9664
<b>Fax:</b>	088-012-997-3875
<b>Contact person:</b>	Piet Kotze / Brenton Nieuhaus
<b>Cell:</b>	082 326 0453 / 083-651-2485
<b>E-mail:</b>	pieter@cleanstream.co.za / brenton@cleanstream.co.za

### Clean Stream Environmental Services - Coalfields

<b>Physical address:</b>	14 Skipper Street, Del Judor, Witbank
<b>Postal address:</b>	P.O. Box 647, Witbank, 1035
<b>Telephone:</b>	013 – 697 5021
<b>Fax:</b>	013 – 697 5021
<b>Contact person:</b>	Adie Erasmus
<b>Cell:</b>	083 271 8260
<b>E-mail:</b>	adie@cleanstreamsa.co.za
<b>Web</b>	www.cleanstreamsa.co.za

### Terra Soil

<b>Physical address:</b>	Jacqueline Drive 489, Garsfontein, Pretoria
<b>Postal address:</b>	P.O. Box 905008, Garsfontein, 0042
<b>Telephone:</b>	012 – 348 2813/4
<b>Fax:</b>	012 – 348 8575
<b>Contact person:</b>	Johan van der Waals
<b>Cell:</b>	082 570 1297
<b>E-mail:</b>	jvdw@cleanstream.co.za

