

FAX. FAKS. ISIKHAHLAMEZI



10/10/99
Department of Agriculture and Environmental Affairs

Departement van Landbou en Omgewingsake

Umnnyango Wezollimo Nezemvelo

FAX TO / FAKS AAN / ISIKHAHLAMEZI SIYAKU:		FAX NO/FAKS NO/INOMBULO YESIKHAHLAMEZI:	
Walmsley Environmental Consultants (PTY) Ltd.		031- 765 5393	
		DATE/DATUM/USUKU: 29.10.99	
ATTENTION/AANDAGAYA KU: Dr. Paul A. Joslin		TIME/TYD/ISIKHATHI:	
MESSAGE/BOODSKAP/UMYALEZO:			
Please find attached a record of decision on your application.			
Name of sender/Naam van sender/Umluhumi Ngu: Mrs. C. Ramdass		KwaZulu-Natal Department of Agriculture & Env Affairs KwaZulu-Natal Departement van Landbou en Omgewingsake SakwaZulu-Natal/Umnnyango Wezollimo Nezemvelo Private Bag/Privaatsak/Isikhwama Sipos X 07 Cascades, 3202 KwaZulu-Natal	
Sender's ref/Sender se verw./Yenzeka afantsi alika: E/W 0866			
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Department of Agriculture and Environmental Affairs

Departement van Landbou en Omgewingsake

Umnnyango Wezolimo Nezemvelo

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Isikrume:		Ucingo:		Isikhahlemezi:	
Seposi:					
Enquiries:	Dr. Timothy Fashanu	Date:	21 October 1999	Reference No.:	EIA/0866
Navraag:		Datum:		Verwysing Nr.:	
Imibuzo:		Usuku:		Inkomba:	

Department of Wastewater Management,
Durban Metropolitan Council,
P.O. Box 1038,
Durban 4000

ATTENTION: Siva Chetty

Dear Sir,

Re: Authorization and Record of Decision

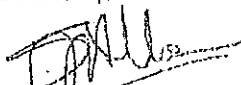
The KwaZulu-Natal Department of Agriculture and Environmental Affairs hereby authorises, by virtue of powers delegated by the national Minister of Environmental Affairs and Tourism and in Section 22 of the Environment Conservation Act, Act No. 73 of 1989, the upgrading and expansion of Tongaat Central Wastewater Treatment Works in the Durban Metropolitan Area.

This authorisation is subject to the following conditions contained in the attached Record of Decision.

The duration of the authorization is twelve months. If construction has not begun within this period a new application will need to be submitted to this Department.

An appeal can be directed to Mr. Norend Singh, MEC of Agriculture and Environmental Affairs, Private Bag X9059, PIETERMARITZBURG, 3200, within thirty (30) days of authorization, setting the grounds of appeal and including all relevant documentation.

Yours sincerely,


MRS S. J. ALLAN
Director: pollution Control



Department of Agriculture and Environmental Affairs

Departement van Landbou en Omgewingsake

Umnyango Wezolimo Nezemvelo

Private Bng:	XOT Cascades	Telephone No:	033 3471 820	Telefax No.:	033 3471 826
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Isikwama:		Ucingo:		Isikhahamezi:	
Isiposi:					
Enquiries:	Dr. Timothy Fasheun	Date:	27 October 1999	Reference No.:	EIA/0666
Navrae:		Datum:		Verwysing Nr.:	
Imibuzo:		Usuku:		Inkomba:	

ASSESSMENT REPORT AND RECORD OF DECISION*

Description of activity:

Durban Metro Wastewater Management is proposing to increase the capacity of the Tongaat Central Wastewater Treatment Works at Greylands from 6Ml/day to 60Ml/day in a phased manner. The design will be based on activated sludge principle.

Location:

Province : KwaZulu-Natal

Magisterial District : Durban Metropolitan

Name of property : Tongaat Central Wastewater Treatment Works

Extent of property : 4 Ha

1:50 000 map : Verulam 2931 CA

Co-ordinates: 29 34' 30" S/31 8' 30" E

Applicant:

Name : Durban Metropolitan Council,
Dept. of Wastewater Management

Address : P.O. Box 1038,
Durban 4000

Tel : 031 302 4602
Fax : 031 302 4549
E-mail: FrankSt@dmws.durban.gov.za

Contact person : Siva Chetty

Tel : 031 302 4647

Address : P.O. Box 1038,
Durban 4000

Fax : 031 302 4549
E-mail: SivaCh@dmws.durban.gov.za

*Note: This Record of Decision will be made available to interested parties on request.

Consultant: Walmsley Environmental Consultants (Pty) Ltd Tel: 031 765 6969
P.O. Box 623, Fax: 031 765 5393
Hillcrest E-mail: wecd@iafrica.com
3650

Site visit: Not deemed necessary

Documentation assessed:
Application form

Report:

The Applicant wishes to upgrade the existing low-capacity Tongaat Central Wastewater Works to a regional one to serve Tongaat and its surrounding areas. This is in anticipation of future growth and expansion in this area.

The proposed 60Ml/day works will be based on activated sludge principle. There will be four conventional activated sludge modules, each with full primary sedimentation, anaerobic digestion and sludge dewatering and disposal off-site.

Phase 1a of the expansion will constitute 30Ml/day extended aeration tank. The effluent would proceed to the aeration tanks with a hydraulic retention time of approximately 21 hours. Carbon removal, nitrification and denitrification will take place in the aeration tanks. It would then go into the secondary clarifiers with a retention time of 5.9 hours, where the sludge will be drawn off. The resulting effluent will be precisely chlorinated before final discharge into the river.

Anaerobic digesters will be used for the treatment of the sludge. Supernatant from the digesters will be dewatered, stored in skips for removal to a disposal site or incinerator station.

Phase 1b will feature the installation of a primary settling tank and the addition of another digester.

This project will involve a lot of earthworks and installation of some service systems.

The site is on 1:50 flood plain and therefore susceptible to flooding. The soils are loose and suspected to be of dolomite formation. There are also some groundwater at varying depths of 1-3 m below ground. The vegetation on the site is said to be of no conservation value. Some tadpoles and aquatic insects have been casually sighted in the vicinity of the site.

Stone Age site has been recorded by the Natal Museum which makes the site archaeologically important

The applicant foresees no problematic environmental issues in this project.

Decision:

Approval is granted for the phased expansion and operation of the Tongat Wastewater Treatment Works subject to undermentioned conditions:

1. There appears to be no evidence of vast change in land-use, and also no serious impact to the environment as a result of the construction and operation of the plant except if the site is eventually declared an cultural or archaeological site.
2. The upgrade will enable the Metro to meet their long-term economic plans.
3. The expansion will reduce the risk of overloading and associated problems to a minimum.

Condition for approval:

1. The applicant should undertake archaeological survey of the area and also notify the Natal Museum before commencement of any construction. Any conditions imposed by Amafa are to be adhered to.
2. An alternative accommodation be provided for the employee and his family who will be displaced as a result of the project.
3. Proper management of the sludge and other wastes emanating from the Works. Documented proposals are

- to be submitted to this Department for perusal.
4. Phosphorus to be monitored to safeguard against eutrophication
 5. Denitrification circuit must be installed to reduce nitrates
 6. Treated areas protected against flooding
 7. Areas disturbed as a result of the additional construction to be re-vegetated

Validity:

This approval is valid for a period of twelve months from the date of issue, i.e., if construction has not commenced within this period, a new application will have to be submitted.

Appeal :

Appeal should be addressed to the MEC for KwaZulu-Natal Department of Agriculture and Environmental Affairs. The appeal must be lodged in writing within 30 days from the date on which the record of decision is issued.

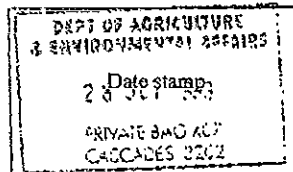
The appeal must contain all the facts as well as the grounds of appeal, and be accompanied by all relevant documents or certified copies.

Assessing officer:

I hereby declare that this application was assessed to the best of my ability, based on the information provided to me by the applicant.

Signature: _____

Dr. Timothy A. Fasheun, Pr.Sci.Nat
Name:



Comments : _____

APPROVED / NOT APPROVED _____

Director: Dept. of Agriculture & Environmental Affairs

SARAH ALLAN
Director: POLYMER CONTROL

29/10/1999
Date