



# EML

**EML CONSULTING SERVICES QLD PTY LTD**

A.C.N. 081 082 555 A.B.N. 39 081 082 555  
6/36 Achievement Cres., Acacia Ridge QLD 4110  
Telephone (07) 3272 7228 • Facsimile (07) 3272 7229

Thursday, 22 February 2001

Lanotec Australia Pty Ltd  
2/21 Alton Street  
ARCHERFIELD QLD 4108



Attention: Geoff Boyle

Dear Geoff,

**Re: Commentary on EML Certificate of Analysis 007806**

The EML group of laboratories operates NATA accredited microbiological testing laboratories in Brisbane, Melbourne and Sydney and offers the largest industrial microbiology selection of NATA accredited tests in Australia. We operate under a quality system that meets the requirements for ISO9002, and are accredited by AQIS, NRA, TGA and NATA (the National Association of Testing Authorities, Australia). NATA accreditation especially ensures that our laboratory's results are of the highest standards and is admissible as evidence in legal proceedings. We are involved in Standard Committees for designing Australian Standards in Microbiological testing and we act as Expert Witnesses on Scientific issues on behalf of our clients.

On the 15<sup>th</sup> of February 2001, EML sourced activated sludge from the Brisbane City Council - Water Treatment Plant at 240 Donaldson Road, Rocklea.

This sewage was exposed to 1, 2, 5 and 10% Citro-force for a period of 30 minutes. Standard Plate Counts were then performed on all these sewage samples, and the results are described in EML Certificate of Analysis 007806.

Activated Sludge	Standard Plate Count (cfu/mL)	Log Reduction
No added Citro-force	1.4x10 <sup>7</sup>	-
1% Citro-force	2.9x10 <sup>6</sup>	0.68
2% Citro-force	4.0x10 <sup>6</sup>	0.54
5% Citro-force	1.8x10 <sup>6</sup>	0.89
10% Citro-force	3.7x10 <sup>6</sup>	0.58

Without taking the addition of the Citro-force in account (which lowers the sewage counts by mere dilution), the state of the activated sludge seems to have been reduced by less than one log unit.

A reduction of less than 1 log unit is not deemed to be significant.

I trust this information is of interest, please do not hesitate to contact the undersigned should more information be required

Yours faithfully,  
**EML Consulting Services Qld Pty Ltd**

**Sofroni Eglezos B.Sc.(Hons) MASM MAIFST**  
Microbiologist



EML Ref No: 7806

Report Date: 22 February, 2001

LANOTEC  
P.O. Box 360  
Archerfield Qld 4108

Attention Geoff Boyle



### Certificate of Analysis

Sample description: Activated Sludge Project 15/2

Samples received: 15 February 2001 at 15:59 hrs. Testing commenced: 15 February 2001 at 16:40 hrs.

EML S/No	Sample Marking:	Identification
007806	Samples tested as received into the laboratory	Result
1	Activated Sludge	14000000
2	Activated Sludge 1 % Citroforce 30 mins exposure	2900000
3	Activated Sludge 2 % Citroforce 30 mins exposure	4000000
4	Activated Sludge 5 % Citroforce 30 mins exposure	~1800000
5	Activated Sludge 10 % Citroforce 30 mins exposure	3700000
Method:		3.100

- greater than, < less than, ~ approximately, est estimated, N/D not detected, cfu colony forming units, SPC Standard (bacterial) plate count

Yours faithfully  
EML CONSULTING SERVICES QLD PTY LTD

Sofroni Eglezos B.Sc(Hons) MASM MAIFST  
Microbiologist



This laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of registration. This document shall not be reproduced except in full