Tasmania

Department of Primary Industries, Water and Environment

ENVIRONMENT PROTECTION NOTICE NO. 497/1

BEAUTY POINT WASTEWATER TREATMENT PLANT

Issued under the Environmental Management and Pollution Control Act 1994

Issued to: West Tamar Council
PO Box 59, Beaconsfield , Tasmania 7270

Issued in respect of Licence No.: 3596

Activity: Secondary treatment of sewage at the Beauty Point sewage treatment plant, off West Arm Road, Beauty Point and discharge of the treated effluent. The major components of the plant are wastewater treatment lagoons.

I, Warren Jones, Director of Environmental Management, am satisfied that in accordance with Section 44(1)(d) of the *Environmental Management and Pollution Control Act* 1994 (EMPCA) it is desirable to issue an environment protection notice to vary the conditions of the Permit titled "Licence to Operate Scheduled Premises – Conditions" Licence No. 3596, for operation of the Beauty Point wastewater treatment plant, which is a level 2 activity under Schedule 2, Section 3(a) of EMPCA.

GROUNDS

The grounds upon which this notice is issued are that it is necessary to vary the conditions attached to the above permit to:

- Bring the conditions attached to the permit into conformity with current policies and requirements;
- Update terminology and clarify the wording of some conditions; and
- Ensure adequate safeguards against environmental harm or nuisance being caused by operation of the Beauty Point wastewater treatment plant and discharge of the effluent from that plant under the requirements and terminology of EMPCA.

The specific grounds for each condition are provided in Schedule 1.

DEFINITIONS

In this EPN, a word or expression has the meaning defined in the *Environmental Management and Pollution Control Act* 1994 or Schedule 2 of this EPN. To the extent that there is any doubt or inconsistency, the meaning in EMPCA prevails.

The terms "sewage treatment plant" and "wastewater treatment plant" have the same meaning as "sewage treatment works" in EMPCA.

Director of Environmental Management:

Date of Issue: 12 MAY 2003

REQUIREMENTS

The holder of Permit Number 3596 is required to comply with the provisions of Schedule 3 of this Notice which operates to vary the conditions of this Permit.

This Notice has effect even if it is inconsistent with the Permit and the Permit has no effect to the extent of any inconsistency with the provisions of Schedule 3.

Explanatory notes are provided in Schedule 4.

PENALTIES

If a person bound by an environment protection notice contravenes a requirement of the notice that person is guilty of an offence and is liable on summary conviction to a penalty not exceeding $50,000 or in the case of a body corporate $100,000.

INFORMATION

This notice takes effect on the date on which it is served upon you. You may appeal to the Appeal Tribunal against this notice, or against any requirement contained in the notice, within 14 days of that date, by writing to:

The Chairperson
Resource Management and Planning Appeal Tribunal
GPO Box 2036
Hobart Tas 7001

Issued by: .....
Warren Jones
Director of Environmental Management

Date: .....day of 2003

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SCHEDULE 1

GROUNDS FOR ISSUING THIS ENVIRONMENTAL PROTECTION NOTICE

The following table gives the grounds for each condition that is listed in Schedule 3 and the grounds for varying the Conditions in Permit No. 3596.

Condition in Schedule 3 of this EPN	Condition in Permit No. 3596	Grounds
	G1	Removed because the condition refers to the repealed Environment Protection Act 1973 and is therefore no longer relevant.
1	Nil	A new condition requiring the preparation of an operations manual for the wastewater treatment plant to ensure best practice environmental management as defined in EMPCA (BPEM).
2 and 3	Nil	New conditions requiring the provision of up to date contact details for the person responsible for 24 hour incident response relating to the activity.
4	G2	A new condition replacing condition G2 in the old permit, relating to operational changes to reflect the terminology and requirements of EMPCA.
5	Nil	A new condition stipulating plant and equipment operating competencies in accord with BPEM.
6 and 7	Nil	New conditions stipulating lagoon operations are in accord with BPEM.
8	Permit 3596 maximum flow	Equivalent condition specifying maximum daily flow.
9 and 10	Nil	New conditions specifying mass load limits and their method of calculation.
11 to 14	Nil	New conditions ensuring accurate flow measurement to enable adequate determination of impact on receiving waters as defined in s45 of SPWQM.
15 to 18	Nil	New conditions to ensure controlled and solid wastes are managed in accordance with BPEM and to ensure the grading and management of biosolids according to the *Tasmanian Biosolids Reuse Guidelines, August 1999*.
19	Nil	New condition requiring a sludge management plan in accord with BPEM.
20 to 22	Nil	New conditions specifying the location of authorised discharge points and discharge criteria and to enable effluent discharge to wastewater reuse schemes.
23 and 24	W2	New conditions replacing condition W2 of the old permit, specifying wastewater quality requirements at the discharge points as defined in s20.4 of SPWQM, and in accordance with BPEM.

Director of Environmental Management:

Date of Issue: 12 MAY 2003

25	Nil	A new condition setting quality limits for effluent reuse in accordance with the *Environmental Guidelines for the Use of Recycled Water In Tasmania, December 2002;* and the quality and management of effluent for reuse to ensure sustainable development as required by EMPCA.
26	Nil	A new condition specifying limits to odour emission as required by EMPCA.
27	Nil	A new condition to ensure noise emissions are managed in accordance with BPEM principles and EMPCA.
28 to 30	Nil	New conditions specifying the effluent monitoring sites to ensure BPEMP and sustainable development as required by EMPCA and to adequately determine impact on receiving water quality as defined in s45 of SPWQM.
31	W3	A new condition, replacing condition W3 in the old permit, to specify effluent quality monitoring required to adequately determine the impact on receiving water quality as defined in s45 of SPWQM.
32	Nil	A new condition specifying ambient surface water quality monitoring to adequately determine impacts on receiving water quality as defined in s45 of SPWQM.
33	Nil	A new condition specifying groundwater monitoring to enable the Director to adequately determine environmental impacts of the activity as required by s24 of SPWQM.
34	W1	A new condition, replacing conditions W1 in the old permit, to specify the testing methods to be used.
35 and 36	W3	New conditions, replacing condition W3 in the old permit, specifying the required reporting to the Director and records to be kept to monitor for, and to ensure BPEM and sustainable development as required by EMPCA; and to enable the Director to effectively assess activity compliance with permit conditions.
37	W1(c)	A new condition, replacing condition W1(c) in the old permit, to ensure that records are kept for at least two years.
38	Nil	A new condition specifying requirements for complaint monitoring in order to facilitate the assessment of any alleged incidents of nuisances and environmental harm under EMPCA.
39	G3	A new condition replacing condition G3 of the old permit to specify the requirements for the notification of incidents and events.
40 to 42	Nil	New annual reporting conditions to enable the Director to effectively assess compliance of the Activity with the permit conditions, EMPCA and BPEM.
43 and 44	Nil	New conditions specifying periodic review of the environmental management plan for the Activity.
45 and 46	Nil	New conditions specifying notification and procedures for site decommissioning to facilitate BPEM and ensure compliance with EMPCA.

SCHEDULE 2

DEFINITION OF TERMS IN THIS NOTICE

In this Notice -

'accepted modern technology' means technology which has consistently demonstrated achievement of the desired effluent pollutant levels in economically viable situations, takes account of engineering and scientific developments in economically viable operations and pursues opportunities for waste minimisation;

'activity' means a wastewater treatment plant off West Arm Road, Beauty Point. The major components of the plant are aerobic lagoons;

'authorised discharge point' means any discharge point approved by the Director;

'BPEM' means best practice environmental management as defined in EMPCA;

'biosolids' means organic solid product produced by wastewater processing. Until such solids are suitable for beneficial use they are defined as *wastewater solids* or *sewage sludge*. The solids content of biosolids should be equal to or greater than 0.5%(w/v). Solid biosolids are defined as >17% solids;

'controlled waste' has the meaning described in section 1(3) of EMPCA;

'the Director' is the Director of Environmental Management appointed under section 18 of the EMPCA (The Director is located within the Department of Primary Industries, Water and Environment);

'EMPCA' means the *Environmental Management and Pollution Control Act 1994*;

'environmental harm', 'material environmental harm' and 'serious environmental harm' each has the meaning described in section 5 of the EMPCA;

'EPA' means *Environment Protection Act 1974*;

'grab sample' means a single sample collected in a manner that ensures that it is a representative sample;

'incident' has the meaning described in Section 32 of the *Environmental Management and Pollution Control Act 1994*;

'the land' means the land on which the activity to which this Notice relates may be carried out, situated at and known as Property ID 7504439, West Arm Road, Beauty Point in the State of Tasmania. For the purposes of this Notice, the Australian Map Grid reference for the approximate centre of the land is E 483 376, N 5444 643.

"max limit' means a limit not to be exceeded by any sample;

'median' means a limit that must not be exceeded by more than *50%* of all the samples required to be collected;

'90% limit' means a limit that must not be exceeded in more than 10% of all the samples required to be collected;

'representative sample' means a sample that, when analysed, produces data that accurately characterises the whole of the source from which it is drawn;

'person responsible for the activity' is any person who is or was responsible for the environmentally relevant activity for which this permit is issued and includes the officers, employees, agents and assigns of that person, and may be a body corporate; and

'SPWQM' means the *State Policy on Water Quality Management 1997*.

SCHEDULE 3

REQUIREMENTS

The provisions of this Schedule operate to vary the conditions of the Permit in respect of which this Notice is issued.

Operations

Operations manual

1 Within 6 months of the receipt of this Notice:

(a) an operations manual that sets out prudent operating procedures to ensure optimum environmental management of the treatment plant must be produced; and

(b) a copy of the operations manual must be provided to the Director.

Contact

2 Within 14 days of the date on which this Notice takes effect, the Director must be provided with telephone and/or pager contact details of a person who can respond to an incident relating to the activity, at any specified time, 24 hours a day.

3 The Director must be notified within 24 hours if:

(a) the person who can respond to an incident relating to the activity ceases to be the person who can respond to an incident relating to the activity; and

(b) there are changes to the telephone and/or pager contact details of the person who can respond to an incident relating to the activity.

Operational Changes

4 Except with the prior written approval of the Director, none of the following may be changed in the course of the operation of the Activity, if the changes will, or are likely to, cause or increase the emission of a pollutant, or otherwise result in environmental harm:

(a) the components or treatment process of the activity;

(b) the nature or quantity of materials dealt with or used or produced in the operation of the activity; and

(c) the construction, installation, alteration or removal of any structure or equipment used in the course of the operation of the activity.

Maintenance

5 All plant and equipment used in the activity:

(a) must be maintained in accord with the manufacturer's specifications ;

(b) must be operated in a proper and efficient manner in accord with the manufacturer's specifications; and

(c) must be operated by personnel holding technical qualifications or levels of competency consistent with any relevant standard defined by the Australian National Training Authority or unless otherwise approved by the Director.

Lagoons

6 No floating matter, including grass, weeds and rubbish will be allowed to accumulate on the surface of any lagoons.

7 All lagoon embankments must be kept in good repair and free of weeds.

Volume

8 The maximum volume of wastewater permitted to be treated is an average dry weather flow (ADWF) of **540 kilolitres** per 24 hour day.

Mass Load Limits

9 Mass loadings discharged by the activity must be calculated in accordance with the formula and definitions shown in Attachment 1 or in accordance with an alternative method approved by the Director.

10 The Mass loadings of treated wastewater discharged by the activity must not exceed the following limits:

Parameter	Weighted load limit (kg)	Period
Total Nitrogen	7 900	yearly
Total Phosphorus	2 000	yearly

Flow

11 Flow monitoring equipment must be installed at the inlet to the treatment plant.

12 Equipment that is required to monitor flow must measure to +/-5% of true value.

13 Flow monitoring equipment must be calibrated in accordance with the manufacturer's specifications or at least once every 12 months.

14 Calibration details must be recorded and kept for a minimum of 2 years.

Waste

15 The person responsible for the activity must not release controlled wastes for transport from the land for fee or reward unless he or she is satisfied that the transporter holds a current Waste Transport Business Environment Protection Notice (WTB-EPN) in force under the EMPCA.

16 Controlled waste generated by the activity may only be disposed of:

(a) at a site and in a manner approved by the Director, or

(b) in accordance with a management plan approved by the Director.

17 A daily record of the quantities and nature of all controlled wastes released for transport from the land must be maintained. The record shall be kept for a minimum period of 2 years and made available to any authorised officer on request.

Sewage Sludge/Biosolids Management

18 Biosolids produced by the activity for reuse must be:

(a) Graded and classified according to the system specified in the *Tasmanian Biosolids Reuse Guidelines 1999.*

(b) Sampled and analysed according to the procedures specified in the *Tasmanian Biosolids Reuse Guidelines 1999.*

19 A management plan for the storage, handling and disposal or reuse of sewage sludge and biosolids in a format approved by the Director must be provided to the Director within 12 months of this Notice being served.

Effluent Discharge

Discharge Location

20 Wastewater from the wastewater treatment plant must only be discharged from the authorised discharge points, as specified below:

Authorised Discharge Points	Purpose	Location
Discharge Point 1	Discharge to a water course	West Arm Outfall
Discharge Point 2	Discharge to a wastewater reuse scheme	The pump station delivering effluent to the wastewater reuse scheme storage lagoon as defined in the approved Environmental Management Plan.

21 Wastewater from the wastewater treatment plant must only be discharged to Authorised Discharge Point 1 in the event that the effluent storage lagoon is full or an emergency discharge is required for other reasons.

22 Treated wastewater discharged to West Arm at Discharge Point 1, must not cause:

(a) odours which would adversely affect the use of the surrounding waters;

(b) any objectionable discolouration or visible oil, grease, foam, scum or litter;

(c) a barrier to the migration of fish or other aquatic organisms;

(d) mortality of fish or other aquatic organisms; or

(e) fish or other aquatic organisms to be unacceptable for human consumption as determined by Tasmanian health standards, and/or any standard in force from time to time, applying to the sale for human consumption of such fish or other aquatic organisms in Tasmania or Australia.

Effluent quality limits

23 Treated wastewater discharged from the activity at Discharge Point 1, must not exceed the quality limits or ranges specified below, within 95% confidence limits (except for Thermotolerant Coliforms) and a minimum of 5 samples or tests.

Parameter	Unit	Limits
pH		within the range 5.5 – 8.5
Biochemical Oxygen Demand	mg/L	Maximum 50
Suspended Solids	mg/L	Maximum 50
Ammonia Nitrogen	mg/L	Maximum 30
Total Nitrogen	mg/L	Maximum 40
Total Phosphorus	mg/L	Maximum 10
Oil and Grease	mg/L	Maximum 10
Thermotolerant Coliforms	cfu/100ml	Median < 1,000

Blue-Green Algae

24 If blue green algae are measured at 11,500 cells/mL or greater in the final effluent, the Director must be notified within 24 hours of the test results being received.

Wastewater Reuse

25 Treated wastewater may only be discharged to Discharge Point 2 for the purposes of reuse:

a) in accordance with an Environmental Management Plan approved in writing by the Director for the purpose of this condition; and

b) provided that treated wastewater does not exceed the quality limits or ranges specified below, within 95% confidence limits (except for Thermotolerant Coliforms) and a minimum of 5 samples or tests:

Parameter	Unit	Limit
pH		Within the range 5.5 – 8.5
Biochemical Oxygen Demand	mg/L	Maximum 50
Thermotolerant Coliforms	cfu/100ml	Median <1,000
Electrical Conductivity	dS/m	1.0

Odour Emission

26 Odour emissions shall not be objectionable beyond the boundary of the activity or any other point specified in writing by the Director.

Noise Emission

27 Noise emissions from the activity when measured at any domestic premises in other ownership and expressed as the adjusted time average A-weighted sound pressure level must not exceed:

- 50 dB(A) between the hours of 0700 and 1800,
- 45 dB(A) between the hours of 1800 and 2200, and
- 40 dB(A) between the hours of 2200 and 0700.

Where the combined level of noise from the activity and the normal ambient noise exceeds the noise levels stated above, for the appropriate time of day, this condition will not be considered to be breached unless the noise emissions from the activity are audible and exceed the ambient noise levels by at least 5 dB(A). Noise level measurements must be taken in the presence of ambient noise normally existent in the area.

The time interval over which noise levels are to be averaged must be between 10 and 20 minutes.

Measured noise levels are to be adjusted for tonality and impulsiveness in accordance with Australian Standard AS 1055.

All methods of measurement must be in accordance with Australian Standard AS 1055 – 1997 Acoustics – Description and measurement of environmental noise and the Tasmanian Code of Practice for Sound Pressure Level Measurement.

Monitoring

Location of Monitoring SItes

28 Monitoring data must be collected at the following locations:

Site	Location	Purpose	Description
1.	Plant inlet	Volume	Records the total volume of wastewater entering the Beauty Point wastewater treatment plant.
2.	Plant outlet	Effluent quality	Monitors the quality of the effluent from Beauty Point wastewater treatment plant.
3.	West Arm within 30 metres of the outfall.	Surface water quality	Monitors surface water quality in vicinity of authorised discharge point 1.
4.	Adjacent to the effluent reuse storage lagoons at a site determined by a qualified geotechnical engineer	Groundwater	Monitors water quality in groundwater to identify any leakage from the treatment or storage lagoons.

29 Any changes to the location of monitoring sites or the monitoring program, from that specified in this EPN must be approved in writing by the Director.

30 All monitoring sites must be clearly identified by a sign.

Effluent Monitoring

31 Samples collected at the effluent monitoring sites must be analysed for the following parameters using the sampling frequency and methods specified:

Parameter	Standard Abbreviation	Units	Site	Method	Frequency
pH		-	2	in situ site test	monthly
Temperature	T	°C	2	in situ site test	monthly
Conductivity	EC	µS/cm	2	in situ site test	monthly
Dissolved Oxygen	DO	mg/L	2	in situ site test	monthly
Biochemical Oxygen Demand	BOD	mg/L	2	grab sample	monthly
Suspended Solids	SS or NFR	mg/L	2	grab sample	monthly
Ammonia-Nitrogen	NH_3-N	mg/L	2	grab sample	monthly
Nitrate-Nitrogen	NO_3-N	mg/L	2	grab sample	monthly
Nitrite-Nitrogen	NO_2-N	mg/L	2	grab sample	monthly
Total Nitrogen	TKN	mg/L	2	grab sample	monthly
Total Phosphorus	P	mg/L	2	grab sample	monthly
Sulphate	SO_4	mg/L	2	grab sample	monthly
Oil and Grease		mg/L	2	grab sample	monthly
Thermotolerant Coliforms		cfu/100mL	2	grab sample	monthly
E.Coli		cfu/100mL	2	grab sample	monthly
Blue-green algae		cells/mL	2	grab sample or sample site test	monthly
Sodium	Na	mg/L	2	grab sample	annually
Potassium	K	mg/L	2	grab sample	annually
Magnesium	Mg	mg/L	2	grab sample	annually
Sodium Adsorption Ratio	SAR	-	2	grab sample	annually
Arsenic	As	mg/L	2	grab sample	annually
Boron	B	mg/L	2	grab sample	annually
Cadmium	Cd	mg/L	2	grab sample	annually
Chromium	Cr	mg/L	2	grab sample	annually
Copper	Cu	mg/L	2	grab sample	annually
Iron	Fe	mg/L	2	grab sample	annually
Lead	Pb	mg/L	2	grab sample	annually
Manganese	Mn	mg/L	2	grab sample	annually
Mercury	Hg	mg/L	2	grab sample	annually
Nickel	Ni	mg/L	2	grab sample	annually
Selenium	Se	mg/L	2	grab sample	annually
Zinc	Zn	mg/L	2	grab sample	annually

Ambient Surface Water Quality Monitoring

32 Ambient water sampling in West Arm (at monitoring site 3) shall be undertaken if effluent is discharged from Discharge Point 1 for more than 24 hours and at monthly intervals thereafter for as long as discharge continues from Discharge Point 1. Water quality shall be analysed, for the parameters and using the methods, as listed in the following table.

Parameter	Units	Site	Method
pH	-	3	sample site test
Temperature	°C	3	sample site test
Dissolved Oxygen	mg/L	3	sample site test
Conductivity	µS/cm	3	sample site test
Suspended Solids	mg/L	3	grab sample
Ammonia Nitrogen	mg/L	3	grab sample
Nitrate Nitrogen	mg/L	3	grab sample
Nitrite Nitrogen	mg/L	3	grab sample
Total Nitrogen	mg/L	3	grab sample
Total Phosphorus	mg/L	3	grab sample
Thermotolerant Coliforms	cfu/100ml	3	grab sample

Groundwater Monitoring

33 A groundwater bore, established at a location determined by a qualified geo-technical engineer to monitor for leakage from the effluent storage lagoon, shall be sampled annually and tested for the parameters listed in the following table.

Parameter	Standard Abbreviation	Units	Site	Sampling Method
pH		-	4	sample site test
Conductivity	EC	µS/cm	4	sample site test
Biochemical Oxygen Demand	BOD	mg/L	4	grab sample
Total Dissolved Solids	TDS	mg/L	4	grab sample
Ammonia-Nitrogen	NH_3 –N	mg/L	4	grab sample
Nitrate-Nitrogen	NO_3-N	mg/L	4	grab sample
Nitrite-Nitrogen	NO_2-N	mg/L	4	grab sample
Total Nitrogen	TKN	mg/L	4	grab sample
Total Phosphorus	P	mg/L	4	grab sample
Calcium	Ca	mg/L	4	grab sample
Sodium	Na	mg/L	4	grab sample
Magnesium	Mg	mg/L	4	grab sample
Potassium	K	mg/L	4	grab sample
Iron	Fe	mg/L	4	grab sample
Aluminium	Al	mg/L	4	grab sample
Fluoride	F	mg/L	4	grab sample
Hardness		mg/L	4	grab sample
Alkalinity		mg/L	4	grab sample
Carbonate	CO_3	mg/L	4	grab sample
Bicarbonate	HCO_3	mg/L	4	grab sample
Chloride	Cl	mg/L	4	grab sample
Sulphate	SO_4	mg/L	4	grab sample
Phosphate	PO_3	mg/L	4	grab sample
Sodium Adsorption Ratio	SAR	-	4	grab sample
Thermotolerant Coliforms		cfu/100ml	4	grab sample
E.Coli		cfu/100ml	4	grab sample

Testing Methods

34 All samples from the sampling method delineated as "grab sample" must be:

a) analysed at a laboratory with N.A.T.A. accreditation for the selected analyses or a laboratory approved in writing by the Director; and

b) collected and analysed in accordance with the relevant Australian Standards unless otherwise specified in writing by the Director.

Records and Reporting

Sample Information Required

35 The following information must be recorded in relation to all sampling:

a) the date on which the sample was taken;

b) the time at which the sample was taken;

c) the monitoring site at which the sample was taken;

d) the measured or estimated daily flow of effluent at the time of sampling; and

e) the results of all monitoring.

36 All sample information and monitoring results must be submitted to the Director, in a format to the satisfaction of the Director, within 2 months of laboratory results becoming available.

37 All records of sampling and analysis required under these permit conditions must be retained for at least 2 years after the date of sampling and made available to the Director upon written request.

Complaints Monitoring

38 A record must be kept of any complaint received by the person responsible for the activity alleging that pollution has occurred as a consequence of the activity. The record must include the following details:

a) the date and time of the complaint;

b) the name and address of complainant if known;

c) the nature of the complaint;

d) the approximate wind speed and direction and air temperature at the time of the complaint;

e) the likely source of the alleged pollution; and

f) the action taken in relation to the complaint, including any follow-up contact with the complainant.

The record of a complaint must be kept for at least 2 years after the complaint is made.

Notification of Incidents and Events

39 If an incident causing or threatening environmental nuisance, serious or material environmental harm from pollution occurs in the course of the activity to which this environment protection notice relates, then the person responsible for the activity must:

a) immediately take all practicable action to minimise any adverse environmental effects from the incident;

b) as soon as reasonably practicable, but not later than 24 hours, after becoming aware of the incident, notify the Director of the incident by a telephone call to the 24-hour emergency telephone number 1800 005 171; and

c) not later than 24 hours after becoming aware of the incident, provide details of the incident to the Director by facsimile to 62 333 800, or by hand delivery, outlining the nature of the incident, the circumstances in which it occurred and the action taken to deal with the incident.

Annual Report

40 An annual report must be submitted to the Director by 31 July of each year, in a form agreed with the Director.

41 The annual report must contain the following:

a) a summary of the Beauty Point wastewater treatment plant performance and an assessment of compliance of the effluent with this permit and with the document, Emission Limit Guidelines for Sewage Treatment Plants that Discharge Pollutants into Fresh and Marine Waters, DPIWE - June 2001

b) environmental and effluent quality monitoring data for all parameters required by permit conditions;

c) a summary of influent flows and loadings from all wastewater sources;

d) particulars of all wastewater sources including the names of major trade waste sources discharging into the sewage system;

e) particulars relating to controlled waste including:

i) the quantities and methods of disposal or reuse of all controlled waste including biosolids;

ii) the gradings of biosolids for re-use; and

f) a summary of complaints during the report period including:

i) the total number of complaints received by the person responsible for the activity;

ii) a breakdown of the total number of complaints into categories of 'odours', 'water pollution', 'aesthetic' and any other category indicated by the complaints; and

iii) a brief description of any significant unresolved issues arising from the complaints.

g) An assessment of the compliance of any wastewater reuse scheme that uses wastewater discharged from the activity, with the approved Environmental Management Plan for the wastewater reuse scheme including:

i) a list of all supplier-user agreements and copies of any such agreements not provided previously to the Director;

ii) the monitoring data specified as required by the Environmental Management Plan and an assessment of that data;

iii) the volume of treated wastewater used by the reuse scheme and the reuse rate as a proportion of total wastewater discharged from the plant;

iv) a summary of agricultural activities including water and nutrient budgets;

v) verification that the wastewater is only being used in a manner and on crops described in the Environmental Management Plan and how this has been verified; and

vi) any proposed variations in the conditions of operation of the reuse scheme.

42 The annual report must present graphs and tables in a format approved by the Director.

Environmental Management Plans

43 An Environmental Management Plan review, in a format approved by the Director, must be submitted by 31 July every three years after the issue of this Notice.

44 In each Environmental Management Plan review the person responsible for the activity must prepare a report for submission to the Director which compares the environmental performance of the activity as predicted in the wastewater reuse scheme Environmental Management Plan with the actual performance of the premises during the review period.

Rehabilitation

45 The Director must be notified of permanent cessation of operations at least 30 days prior to the planned date of cessation.

46 Following permanent cessation of operations, rehabilitation of the land must be carried out in accordance with a decommissioning and rehabilitation plan approved by the Director. The plan must be prepared in accordance with guidelines to be provided by the Director, and by such date as the Director may specify in writing.

SCHEDULE 4

EXPLANATORY NOTES

POLICY OBJECTIVES

Wastewater treatment plants (WWTP) in Tasmania must comply with the requirements for best practice environmental management (BPEM) and move toward implementing accepted modern technology (AMT) under the *Environmental Management and Pollution Control Act 1994* (EMPCA) and the *State Policy on Water Quality Management 1999* (SPWQM). The management of pollutant discharge from point sources is governed by the principles defined in clause 16.2 of SPWQM, namely:

- Pollutant discharges must not prejudice water quality objectives (WQO) defined for the receiving waters.
- Pollutant discharges must be reduced to the maximum extent by Best Practice Environmental Management (BPEM) in accordance with the hierarchy of waste management.

The policy framework and guidelines relevant to implementation of policy are as follows:

- *Emission Limit Guidelines for Sewage Treatment Plants That Discharge Pollutants In To Fresh And Marine Waters, June 2001*
- *Accepted Modern technology Policy Framework for Wastewater Treatment Systems and New Permit Requirements, August 2001*
- *Tasmanian Biosolids Reuse Guidelines; Aug 1999*
- *Environmental Guidelines for the Use of Recycled Water in Tasmania, April 2000*

POLICY IMPLEMENTATION

Environmental conditions attached to level 2 wastewater treatment plant permits are being revised and updated. The conditions contained in Schedule 3 (Requirements) of this document reflect the SPWQM objectives as follows:

- Emission limits based on up to date performance data and BPEM/AMT criteria.
- Adequate monitoring to maintain full compliance with emission limits and ensure WQOs are not prejudiced.
- Pro-active implementation of the BPEM waste management hierarchy with a focus on effluent re-use feasibility where appropriate.
- Self auditing/reporting requirements in line with industry best practice, including:

a) incident notification

b) event reporting at the Director's request

c) annual reporting

d) environmental management plan review.