

BST 539

BST2010/3692

C1858658

20-Sep-2010



Registration certificate

Environmental Protection Act 1994

Certificate of Registration

No: ENRE00715307

This amended registration certificate is issued by the administering authority and takes effect from: 20-SEP-2010.

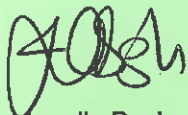
The anniversary day for the purposes of the Annual Return remains: 5th August.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following place; subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-**Currumbin Minerals Pty Ltd****20 Wheeler Crescent****CURRUMBIN QLD 4223****Place:-****Lot 1 Plan 196129, Lot 101 Plan SP109925****Located at:-****20 Wheeler Crescent, CURRUMBIN**

Registered Activity: -

ERA 31 Mineral processing Threshold 2(a) - processing, in a year, 1000t to 100000t of mineral products, other than coke



Janelle Bush
Delegate
Administering authority
Environmental Protection Act 1994

20-SEP-2010



**Queensland
Government**

Enquiries Paul Dodd
Telephone (07) 3225 1073
Your reference SR609
Our reference STH3764

Queensland Parks and Wildlife Service

An entity of the
Environmental Protection Agency

17 September 2004

Currumbin Minerals Pty Ltd
20 Wheeler Crescent
CURRUMBIN QLD 4223

cc Currumbin Minerals Pty Ltd
PO Box 31
CURRUMBIN QLD 4223

Att: Peter Neumann

Dear Sir

**Re. Currumbin Minerals Pty Ltd - amendment of environmental authority (licence)
number SR609**

I wish to advise that the Environmental Protection Agency (EPA) has granted your application to amend licence number SR609, received by this office on 3 June 2004. The EPA has also made additional amendments to SR609 by agreement, pursuant to section 130(1)(a) of the *Environmental Protection Act 1994*.

The amended licence (attached) takes effect from 17 September 2004.

Should you have any enquiries regarding this matter please contact Paul Dodd, telephone (07) 3225 1073.

Yours sincerely

Lawrie Wade
Acting Manager (Licensing)
Southern Region EPA

Notice

Environmental Operations

Decision to grant an amendment to an environmental authority

This statutory notice is issued by the administering authority pursuant to section 126 of the *Environmental Protection Act 1994*, to advise you of a decision or action.

Currumbin Minerals Pty Ltd
20 Wheeler Crescent
CURRUMBIN QLD 4223

Currumbin Minerals Pty Ltd
PO Box 31
CURRUMBIN QLD 4223

Your reference :

Our reference : STH3764/SR609

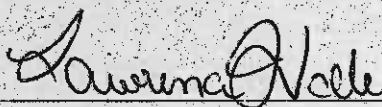
Attention. Mr Peter Newman,

Re: Application for amendment of a licence (without development approval) by Currumbin Minerals Pty Ltd to carry out Environmentally Relevant Activity (ERA) 45, Mineral processing, on land located at 20 Wheeler Crescent, Currumbin 4223.

Thank you for your application to amend environmental authority number SR609. Your application, which was received by this office on 3 June 2004, has been approved.

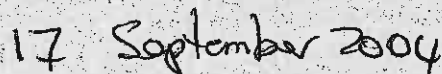
The amendment takes effect from 17 September 2004.

Should you have any queries in relation to this Notice, Paul Dodd of the EPA on telephone (07) 3225 1073 would be happy to assist you.



SIGNATURE

Lawrie Wade
Acting Manager (Licensing)
Delegate of Administering Authority
Environmental Protection Act 1994



DATE

Enquiries:
Southern Regional Office (Brisbane)
GPO Box 2771
Phone: (07) 3224 5641 Fax: (07) 3225 8723



Queensland Government
Environmental Protection Agency
Queensland Parks and Wildlife Service

Southern Regional Office (Brisbane)
GPO Box 2771 BRISBANE QLD 4001
Phone : (07) 3224 5641 Fax: (07) 3225 8723
www.env.qld.gov.au ABN: 87221158786

Licence No. SR609 (without development approval)

Section 93 Environmental Protection Act 1994

This licence to carry out an environmentally relevant activity is issued in accordance with section 93 of the Environmental Protection Act 1994.

**Under the provisions of the
Environmental Protection Act 1994 this licence is issued to:**

Currumbin Minerals Pty Ltd
20 Wheeler Crescent
CURRUMBIN QLD 4223

in respect of carrying out the following environmentally relevant activity (ERA):

ERA 42(a) - Mineral processing - commercially processing, classification, mixing or concentration of mineral ores to produce mineral concentrates in works having a production design capacity of more than 1 000 tonnes, but less than 100 000 tonnes, a year;

at the following place/s:

Lot 1 Plan 196129 & Lot 3 Plan 212384, Parish of Tallebudgera

located at: 20 Wheeler Crescent, Currumbin Qld 4223

This licence is subject to the conditions set out in the attached schedules.

The anniversary date of this licence is 6 August

This licence takes effect from 24 September 2004.


Signed

17 September 2004
Date

Lawrie Wade
Acting Manager (Licensing)
Delegate of Administering Authority
Environmental Protection Act 1994

Note. This licence document is not proof of the current status of the licence. The current status of the licence may be ascertained by contacting the Environmental Protection Agency.

ENVIRONMENTAL PROTECTION ACT 1994



Schedule of conditions

The aforementioned description of the ERA for which this authority is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing the authority. Where there is any conflict between the above description of the ERA for which this authority is issued and the conditions as specified in this authority as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This licence incorporates the following schedules of conditions relevant to various issues:

- Schedule A - General Conditions
- Schedule B - Air
- Schedule C - Water
- Schedule D - Noise
- Schedule E - Land Application
- Schedule F - Waste Management
- Schedule G - Monitoring and Reporting
- Schedule H - Definitions
- Schedule I - Figures

Schedule A - General conditions

Maintenance of Plant and Equipment

(A1-1) The holder must:

- (a) install all plant and equipment necessary to ensure compliance with the conditions of this authority;
- (b) maintain such plant and equipment in a proper and efficient condition; and
- (c) operate such plant and equipment in a proper and efficient manner.

Display of Environmental Authority

(A2-1) A copy of this authority must be kept in a location readily accessible to personnel carrying out the ERA

Records

(A3-1) Record, compile and keep for a minimum of five years all monitoring results or other information required by this authority and make those records available for inspection upon request by the administering authority. The requirement of this condition will be satisfied where daily or weekly records are kept for a period of at least three (3) years and thereafter in the form of annual summaries.

(A3-2) Where monitoring is required by this authority, ensure that a competent person conducts all monitoring

Environmental Harm or Nuisance

(A4-1) Notwithstanding any other condition hereof, this authority does not authorise any release of contaminants which causes or is likely to cause environmental harm beyond the boundaries of the site.

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Site-Based Management Plan

- (A5-1) On or before 10 December 2004 submit to the administering authority a Site Based Management Plan (SBMP) in accordance with condition (A7-2).
- (A5-2) A SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact thereof and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of the ERA. The SBMP must address the following matters in relation to the ERA:
- (a) the holder's commitment to achieve specified and relevant environmental goals;
 - (b) identification of environmental issues and potential impacts;
 - (c) control measures for routine operations to minimise likelihood of causation of environmental harm;
 - (d) contingency plans and emergency procedures for non-routine situations which may cause environmental harm;
 - (e) organisational structure and responsibility;
 - (f) effective communication;
 - (g) monitoring of contaminant releases;
 - (h) conducting environmental impact assessments;
 - (i) staff training;
 - (j) record keeping; and
 - (k) periodic review of environmental performance and continual improvement.

END OF CONDITIONS FOR SCHEDULE A

Schedule B - Air

Nuisance

- (B1-1) The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the ERA must not cause a nuisance at any sensitive place in the opinion of an authorised person.

Dust nuisance

- (B2-1) The release of dust or other particulate matter resulting from the ERA must not cause an environmental nuisance at any sensitive place.

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- (B2-2) For the purposes of condition (B2-1) and without limiting the applicability of other criteria relevant in particular circumstances, the ERA would cause environmental nuisance where dust or other particulate matter resulting from the ERA exceeds the following limits when measured at a relevant sensitive place:
- (a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard 3580.10.1 Methods for sampling and analysis of ambient air – Determination of particulates – Deposited matter – Gravimetric method, or
 - (b) a concentration of suspended particulate matter with an aerodynamic diameter of less than 10 micrometres (μm) (PM10) of 150 micrograms per cubic metre over a 24 hour averaging time at a sensitive place downwind, when monitored in accordance with:
 - (i) Australian Standard AS 3580.9.6 Methods for sampling and analysis of ambient air – Determination of particulate matter – PM (sub) 10 high-volume sampler with size-selective inlet - Gravimetric method; or
 - (ii) any alternative method of monitoring PM10 which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority.
- (B2-3) Dust or other particulate monitoring must be undertaken as directed by the administering authority to investigate any complaint about dust nuisance being caused by the ERA, which complaint in the opinion of an authorised person is not frivolous, vexatious nor based on mistaken belief, and the results thereof notified to the administering authority within 14 days following completion of monitoring. For the purposes of this condition, dust monitoring must be carried out by a competent person at a site relevant to the potentially affected sensitive place and at upwind control site(s) and must include:
- (a) for a complaint alleging dust nuisance, dust deposition; and
 - (b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of suspended PM10 over a 24hr averaging time
- (B2-4) If an authorised person's opinion is that monitoring results indicate environmental nuisance is being caused by dust or other particulate matter from the ERA, the holder must:
- (a) address the complaint including the use of appropriate dispute resolution if required; or
 - (b) immediately implement abatement measures so that emission of dust or other particulate matter from the ERA does not result in further environmental nuisance.

Release of Contaminants to the Atmosphere

- (B3-1) The release of contaminants by the ERA to the atmosphere from a point source must only occur from those release points specified in Schedule B - Table 1 and must be directed vertically upwards without any impedance or hindrance.
- (B3-2) Contaminants must not be released by the ERA to the atmosphere from any point source other than in accordance with Schedule B - Table 1.
- (B3-3) Point source air contaminant emission monitoring must be carried out at the frequency specified in Schedule B Table 1, or as directed by the administering authority to investigate any complaint about such emission from the ERA, which complaint in the opinion of an authorised person is not frivolous, vexatious nor based on mistaken belief, and the results thereof notified to the administering authority within 14 days following completion of monitoring. For the purposes of this condition, point source air contaminant emission monitoring must be carried out by a competent person and may be directed by the administering authority:
- (a) to be carried out for the release points specified in Schedule B - Table 1;
 - (b) to comply with the Australian Standard AS 4323.1 - 1995 - Stationary source emissions Method 1: Selection of sampling positions;
 - (c) to include the following parameters:
 - (i) gas velocity and volume flow rate;
 - (ii) temperature

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(iii) water vapour concentration (moisture content),

(d) to be done when emissions are expected to be at maximum rates, and

(e) to include the following additional information;

- (i) production rate at the time of monitoring;
- (ii) raw materials used;
- (iii) equipment and mixing vessels operating;
- (iv) operating or mixing temperature;
- (v) product made; and
- (vi) reference to actual test methods and accuracy.

Schedule B - Table 1 (Release of contaminants)

Release point or source description	Release point number	Minimum release height (metres)	Minimum velocity (m/sec)	Contaminant release	Maximum release limit	Sampling frequency
Diesel powered driers (x2) for zircon sand	DM1 and DM2	15	8.0	Particulates	50 mg/m ³	Annually
Diesel powered concentrate pre-treatment drier	DM3	15	8.0	Particulates	50 mg/m ³	Annually
Natural gas powered opacifier spray drier	DM4	15	8.0	Particulates	50 mg/m ³	Annually

Fuel Burning

(B4-1) The sulphur content of fuel for industrial fuel burning equipment is not to exceed 0.5 percent by weight.

(B4-2) The fuel for industrial fuel burning equipment must be diesel or propane gas.

Fabric Filter Dust Collector

(B5-1) Effluent gas from the release points prescribed by Schedule B Table 1 must be exhausted to the atmosphere via an effective fabric filter, and material collected by such filter must be removed and disposed whereby contaminants are not released to the atmosphere or to waters.

(B5-2) An audible and visual alarm must provide effective warning when a fabric filter medium breakthrough occurs.

(B5-3) Replacement bags for a fabric filter must be readily available for immediate use.

END OF CONDITIONS FOR SCHEDULE B

Schedule C - Water

Stormwater

(C1-1) Prevent the release of sediment to waters or a build up of sediment in any stormwater drain.

Release Points

(C2-1) Contaminants must not be directly or indirectly released from the site to any waters outside the site other in accordance with Schedule C Table 1.



- (C2-2) Monitoring must be undertaken in accordance with Schedule C Table 1:
- (a) by a competent person in accordance with methods prescribed in the latest edition of the Environment Protection Agency Water Quality Sampling Manual; and
 - (b) for samples that are representative of the relevant waters.

Schedule C - Table 1: Water contaminant release point, limits and monitoring frequency

Release / Monitoring Point	Parameter	Minimum	Maximum	Monitoring Frequency
SW1 marked on Figure 1 in Schedule 1	pH	6	8.5	at least once weekly during event release
	Total Suspended Solids (mg/L)	-	50	at least once weekly during event release
	Dissolved Oxygen (mg/L)	6		at least once weekly during event release

Notification

- (C3-1) Should any limit for the water quality parameters prescribed by Schedule C - Table 1 be exceeded, the holder must immediately notify the administering authority and take reasonable and practical measures as directed by the administering authority to rectify the exceedance.

General

- (C4-1) The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or external stormwater drainage system.
- (C4-2) Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any external stormwater drainage system, roadside gutter or waters.

END OF CONDITIONS FOR SCHEDULE C

Schedule D - Noise

Noise nuisance

- (D1-1) Noise from the ERA must not cause an environmental nuisance at any sensitive place in the opinion of an authorised person.
- (D1-2) Noise monitoring must be undertaken as directed by the administering authority to investigate any complaint about noise nuisance being caused by the ERA, which complaint in the opinion of an authorised person is not frivolous, vexatious nor based on mistaken belief, and the results thereof notified to the administering authority within 14 days following completion of monitoring. For the purposes of this condition, noise monitoring must be done by a competent person in accordance with the latest edition of the Environmental Protection Agency *Noise Measurement Manual* and include:



- (a) $L_{A, \max \text{ adj, T}}$;
- (b) relevant background sound level;
- (c) the level and frequency of occurrence of impulsive or tonal noise;
- (d) atmospheric conditions including wind speed and direction; and
- (e) location, date and time of measurements.

(D1-3) For the purposes of condition (D1-1), the ERA will not cause environmental nuisance where noise from the ERA does not exceed the limits specified in Schedule D - Table 1.

(D1-4) If an authorised person's opinion is that monitoring results indicate environmental nuisance is being caused by noise from the ERA, the holder must:

- (a) address the complaint including the use of appropriate dispute resolution if required, or
- (b) immediately implement noise abatement measures so that emissions of noise from the ERA do not result in further environmental nuisance.

Schedule D - Table 1 (Noise limits) *

Noise level dB(A) measured as	Monday to Saturday			Sundays and public holidays		
	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9am
<i>Noise measured at a 'Noise sensitive place'</i>						
$L_{A, \max \text{ adj, T}}$	Background + 5 dB(A)	Background + 5 dB(A)	Background +3 dB(A)	Background +3 dB(A)	No audible noise	No audible noise
<i>Noise measured at a 'Commercial place'</i>						
$L_{A, \max \text{ adj, T}}$	Background + 10 dB(A)	Background + 10 dB(A)	Background + 5 dB(A)	Background + 5 dB(A)	Background + 3 dB(A)	Background + 3 dB(A)

Where "T" is 10 minutes and "Background" means background sound pressure level measured in accordance with the latest edition of the Environmental Protection Agency *Noise Measurement Manual*.

* Schedule D Table 1 does not purport to set operating hours for the ERA.

END OF CONDITIONS FOR SCHEDULE D

Schedule E - Land application

Prevent contaminated land

- (E1-1) Contaminants must not be released thereby causing contaminated land.
- (E1-2) Spillage of any chemicals, flammable or combustible liquids must be contained on the site and rectified whereby material or serious environmental harm is not caused.
- (E1-3) All petroleum product storage must be designed, constructed and maintained in accordance with Australian Standard 1940 - Storage and Handling of Flammable or Combustible Liquids.

END OF CONDITIONS FOR SCHEDULE E



Schedule F – Waste Management

General

- (F1-1) All regulated waste removed from the site must be by a person who holds a current authority to do so under the *Environmental Protection Act 1994*.
- (F1-2) Effective procedures must be implemented to ensure that wastes generated on the site are minimised, recycled, stored, handled and transferred in a proper and efficient manner, and so that disposal of such waste is at a facility lawfully able to do so.
- (F1-3) The holder must not:
- (a) burn waste on the site;
 - (b) allow waste to be burned on the site; or
 - (c) remove waste from the site for burning elsewhere.
- (F1-4) Waste derived from the mineral processing process and ancillary activities must not be disposed of at the site.

Regulated Waste Removal

- (F2-1) Where regulated waste, including any radioactive waste, is removed from the site, the holder must obtain and keep the following records:
- (a) the date, quantity and type of waste removed;
 - (b) name of the person removing the waste; and
 - (c) the intended treatment or disposal destination of the waste.
- (F2-2) Regulated waste, including any radioactive waste, removed from the site must be treated or disposed of at a facility lawfully able to do so.

Notification of Improper Disposal Of Regulated Waste

- (F3-1) The holder must immediately notify the administering authority about any circumstances indicative of improper removal or disposal of waste from the site.

END OF CONDITIONS FOR SCHEDULE F

Schedule G – Monitoring and Reporting

Complaint Recording

- (G1-1) All complaints about the ERA received by the holder must be recorded including investigations undertaken, conclusions formed and action taken. This information must be made available to the administering authority on request.

Exception Reporting

- (G2-1) The holder must give written notice to the administering authority about any monitoring result exceeding a limit prescribed by this authority within 28 days of completion of analysis.
- (G2-2) Written notification required by condition (G2-1) must include:
- (a) the analysis results;
 - (b) details of investigation or corrective actions taken; and
 - (c) any subsequent analysis.

END OF CONDITIONS FOR SCHEDULE G

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Schedule H - Definitions

Words and phrases used throughout this authority are defined below. Where a definition for a term used in this authority is sought and the term is not defined herein, the definitions provided in the *Environmental Protection Act 1994*, Regulations made under that Act, Environmental Protection Policies or ordinary meaning should be used.

"administering authority" means the Environmental Protection Agency or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *Environment Protection Act, 1994*) for the section 86(2) licence that applies to an approval.

"approval" means development permit or preliminary approval decision notice or referral agency response under the *Integrated Planning Act 1997*.

"authorised person" means a person holding office as an authorised person under an appointment under the *Environment Protection Act, 1994* by the chief executive.

"authorised place" means the place, premises or land authorised under this authority or approval for the carrying out of the specified environmentally relevant activities.

"authority" means level 1 licence (with or without development approval), provisional licence, level 1 approval (with or without development approval), level 2 approval, environmental authority (mining activities) or a constituent part of an integrated authority under the *Environmental Protection Act 1994*.

"commercial place" means a place used as an office or for business or commercial purposes.

"competent person" means a person with sufficient demonstrated skill, knowledge and qualifications required to carry out a task to a necessary standard for protection of the environment.

"dwelling" means any of the following structures or vehicles that is principally used as a place for human habitation-

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land; and
- a water craft in a marina.

"event release" means water released from the discharge point described as the stormwater drain to Stewarts Road as shown in Schedule I Figure 1.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.

In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be had to Australian Standard 1055.2 - 1997 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations.

"land" in the "land schedule" of this document means land excluding waters and the atmosphere.

" $L_{A, max adj, T}$ " means the average maximum A-weighted sound pressure level, adjusted for tonal or impulsive noise character, and measured over any 10 minute period, using Fast response.

"mg/L" means milligrams per litre.

"noise sensitive place" means -

- a dwelling, mobile home or caravan park, residential marina or other residential premises;
- a motel, hotel or hostel;
- a kindergarten, school, university or other educational institution;
- a medical centre or hospital;
- a protected area under the Nature Conservation Act 1992 or the Marine Parks Act 1992, or a World Heritage Area, and
- a public thoroughfare, park or gardens;

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and includes that part of the curtilage of a building or structure used for purposes usually or reasonably associated with the building or structure.

"noxious" means harmful or injurious to health or physical well being.

"sensitive place" includes -

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises;
- a motel, hotel or hostel;
- a kindergarten, school, university or other educational institution;
- a medical centre or hospital;
- a protected area under the Nature Conservation Act 1992 or the Marine Parks Act 1992, or a World Heritage Area;
- a public thoroughfare, park or gardens; and
- a commercial place;

and includes that part of the curtilage of a building or structure used for purposes usually or reasonably associated with the building or structure.

"offensive" means causing offence or displeasure, is disagreeable to a sense, disgusting, nauseous or repulsive.

"plant and equipment" includes:

- plant and equipment used to prevent or minimise the likelihood of environmental harm being caused;
- devices and structures to contain foreseeable escapes of contaminants or waste;
- devices and structures used to store, handle, treat and dispose of contaminants or waste;
- monitoring equipment and associated alarms; and
- backup systems that act in the event of primary system failure.

"regulated waste" means non-domestic waste defined in Schedule 7 of the Environmental Protection Regulation 1998 (whether or not it has been treated or immobilised), and includes:

- for an element, any chemical compound containing the element; and
- anything that has contained such waste.

"representative" means a sample set which covers the variance in monitoring or other data either due to natural changes or to different phases of mining/quarrying activities.

"site" means the place or premises to which this authority or approval relates.

"waters" includes any watercourse, lake, lagoon, pond, swamp, wetland, bed and bank of any waters, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off or groundwater.

"you" or "holder" means the holder of an authority or approval or person acting under an authority or approval

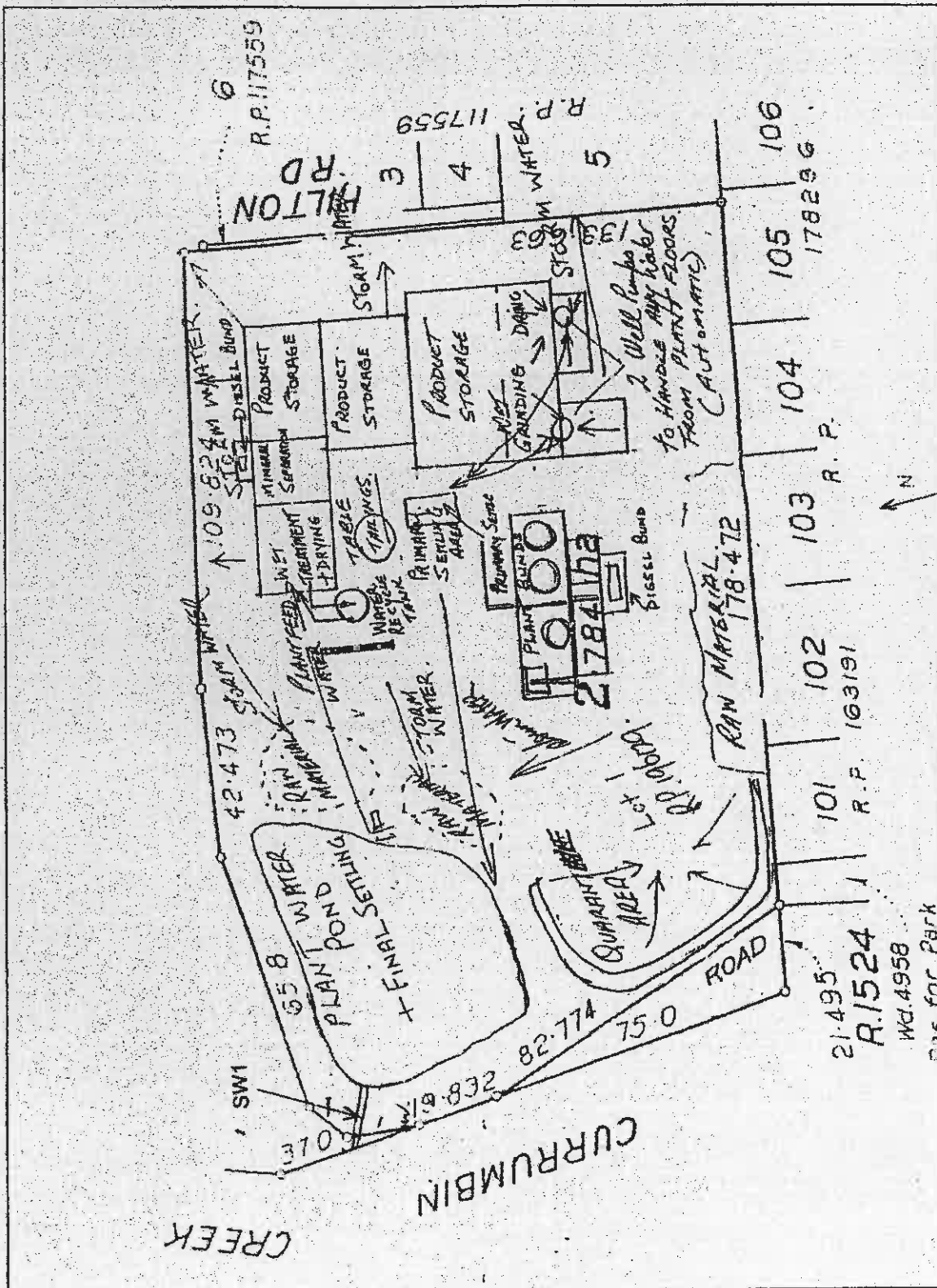
END OF CONDITIONS FOR SCHEDULE H

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Schedule I - Figures

Schedule I - Figure 1: Site plan, including location of water release and monitoring point SW1.



END OF CONDITIONS FOR SCHEDULE I

END OF ENVIRONMENTAL AUTHORITY

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