Permit

Environmental Protection Act 1994

Environmental authority P-EA-101073704

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: P-EA-101073704

Environmental authority takes effect on 30 June 2027. This is the take effect date.

Within 5 business days of the environmental authority taking effect, the administering authority must be given written notice of the occurrence. Prior to the commencement of the activity, the administering authority must be given written notice of the proposed date of commencement.

The first annual fee is payable within 20 business days of the take effect date.

The anniversary date of this environmental authority is the same day each year as the take effect date. The payment of the annual fee will be due each year on this day.

Environmental authority holder

Name	Registered address
QWool Pty Ltd (ACN 651496150)	68 Ash Street BARCALDINE 4725 QLD

Environmentally relevant activity and location details

Environmentally relevant activities	Location
ERA 40 - Textile manufacturing 2 - Manufacturing or processing, in a year, a total of 100t or more of scouring or carbonising wool	Lot 2 on SP351530, 126 Evora Road, Blackall.
ERA 63 - Sewage Treatment 1(a)(i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP - if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

Queensland Government

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)

- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Obligations under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act)

Matters of national environmental significance (MNES) are regulated under the Commonwealth EPBC Act rather than under state legislation. You may need to submit a referral if your project potentially impacts any matters protected under the EPBC Act. For more information on self-assessments, and referral and assessment processes please visit the Department of Climate Change, Energy, the Environment and Water webpage, https://www.dcceew.gov.au/environment/epbc/advice.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. If you are unsure that you have the most current version of the environmental authority relating to this site please visit https://apps.des.qld.gov.au/env-authorities/ to access all environmental authorities currently approved.

Obligations under the *Aboriginal Cultural Heritage Act 2003* and *Torres Strait Islander Cultural Heritage Act 2003* (the Cultural Heritage Acts)

The Cultural Heritage Acts require anyone who carries out a land-use activity to exercise a duty of care. This 'duty of care' means land users must take all reasonable and practicable measures to ensure their activity does not harm Aboriginal or Torres Strait Islander cultural heritage, and applies to any activity where Aboriginal or Torres Strait Islander cultural heritage is located. For more information on your obligations under this legislation, please visit the Department of Women, Aboriginal and Torres Strait Islander Partnerships and Multiculturalism webpage at, https://www.tatsipca.qld.gov.au/.

Obligations under the *Water Supply (Safety and Reliability) Act 2008*

In order to lawfully operate you may also require permits / approvals under the *Water Supply (Safety and Reliability) Act 2008*, such as a Recycled Water Management Plan for dual reticulation.



Signature

18/09/2026

Date

Rebecca Griffiths
Department of the Environment, Tourism, Science and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Utilities and Government Organisations Assessment
Phone: 1300 130 372 (option 4)
Email: palm@des.qld.gov.au

Conditions of environmental authority

Part 1 – General conditions for all activities

Environmentally relevant activities	Location
ERA 40 - Textile manufacturing 2 - Manufacturing or processing, in a year, a total of 100t or more of scouring or carbonising wool	Lot 2 on SP351530, 126 Evora Road, Blackall.
ERA 63 - Sewage Treatment 1(a)(i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP - if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site-specific conditions of approval.

<table>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td colspan="2">General</td></tr>
<tr><td>P1-A1</td><td>This environmental authority authorises the activities listed in P1 - Table 1 – Authorised activities.

P1 - Table 1 – Authorised activities
<table>
<tr><th>Activity</th><th>Maximum inputs and outputs</th><th>Maximum area</th><th>Locations</th></tr>
<tr><td>Textile manufacturing – wool scouring</td><td>Inputs into the wool scouring facility must not exceed 14,000 tonnes of raw wool in any year.</td><td>39 ha</td><td rowspan="3">Appendix 1 – Site Plan and Appendix 2 – Facility Infrastructure Plan</td></tr>
<tr><th>Activity</th><th>Maximum outputs</th><th>Maximum area</th></tr>
<tr><td>Sewage treatment</td><td>Inflows into the sewage treatment plant must not exceed 10,000 litres on any day.</td><td>0.3 ha</td></tr>
</table></td></tr>
<tr><td>P1-A2</td><td>All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused, or likely to be caused, by the activities.</td></tr>
<tr><td>P1-A3</td><td>Unless specifically authorised by a condition of this environmental authority, this environmental authority does not authorise a relevant act which is:

a) an act that causes serious or material environmental harm or an environmental nuisance; or
b) an act that contravenes a noise standard; or
c) a deposit of a contaminant, or release of stormwater run-off, mentioned in section 440ZG of the Environmental Protection Act 1994.</td></tr>
<tr><td>P1-A4</td><td>Unless specifically authorised by a condition of this environmental authority, this environmental authority does not authorise the release of a contaminant into the environment.</td></tr>
</table>

P1-A5	**Contravention of conditions** Details of any contravention of a condition of this environmental authority must: a) be reported to the **administering authority** within 24 hours of becoming aware of the contravention; and b) include the nature and circumstances of the contravention and any immediate actions taken.
P1-A6	As soon as reasonably practicable and within 20 **business days** of a report made under condition P1-A5 (or a longer period agreed to in writing by the **administering authority**), an investigation must be undertaken to determine: a) the potential circumstances and actions that may have contributed to the contravention; and b) the environmental impact of the contravention; and c) reasonable and practicable **measures** that will be implemented to address the cause of the contravention to prevent future contraventions of this nature.
P1-A7	As soon as reasonably practicable and within 20 **business days** of investigating a contravention under condition P1-A6 (or a longer period agreed to in writing by the **administering authority**), the reasonable and practicable **measures** identified in the investigation must be implemented.
P1-A8	The outcome of the investigation carried out under condition P1-A6 and the reasonable and practicable **measures** implemented under condition P1-A7 must be **recorded** and provided to the **administering authority** upon request.
P1-A9	**Complaints** The following details must be **recorded** for all **complaints** received and provided to the **administering authority** upon request: a) date and time the **complaint** was received; and b) if authorised by the **person** making the **complaint**, their name and contact details; and c) nature and details of the **complaint**.
P1-A10	As soon as reasonably practicable and within 5 **business days** of receiving a **complaint** (or a longer period agreed to in writing by the **administering authority**), an investigation must be undertaken to determine: a) the potential circumstances and actions on **site** that may have contributed to the basis of the **complaint**; and b) reasonable and practicable **measures** that will be implemented to address the **complaint.**
P1-A11	As soon as reasonably practicable and within 5 **business days** of investigating a **complaint** under condition P1-A10 (or a longer period agreed to in writing by the **administering authority**), the reasonable and practicable **measures** identified in the investigation must be implemented.
P1-A12	The outcome of the investigation carried out under condition P1-A10 and the reasonable and practicable **measures** implemented under condition P1-A11 must be **recorded**.
P1-A13	**Environmental risk management procedures** Written procedures must be developed and implemented by an **appropriately qualified person** that ensure: a) all potential risks to the environment from the carrying out of the **activity** are identified and

<table>
<tr><td></td><td>assessed, including:
i) during routine operations; and
ii) outside routine operations (e.g., maintenance, start up and shut down); and
iii) during preparation; and
iv) in an emergency (e.g., fire, flood or other natural disaster); and
b) for each potential risk identified, any necessary measures to prevent or minimise the potential for environmental harm are implemented; and
c) staff understand their obligations under this environmental authority and the Environmental Protection Act 1994; and
d) environmental risk management procedures are continually reviewed and improved, based on a reasonable risk-management approach.</td></tr>
<tr><td>P1-A14</td><td>Plant and equipment
An appropriately qualified person(s) must install, operate, calibrate, and maintain the plant and equipment required to carry out the activity (including monitoring devices) in a proper and effective manner.</td></tr>
<tr><td>P1-A15</td><td>Records of installation, calibration and maintenance carried out under condition P1-A14 must be kept.</td></tr>
<tr><td>P1-A16</td><td>Record keeping
Unless otherwise specified by a condition of this environmental authority, records must be:
a) kept for the period outlined in P1 - Table 2 – Record keeping requirements; and
b) provided to the administering authority upon request.

P1 - Table 2 – Record keeping requirements
<table><tr><th>Description of records</th><th>Retention requirement</th></tr><tr><td>Monitoring results.</td><td>Retain for 15 years.</td></tr><tr><td>All other records.</td><td>Retain for 5 years.</td></tr></table></td></tr>
<tr><td>P1-A17</td><td>Chemical storage
Chemicals and fuels in containers of greater than 15 L must be stored within a secondary containment system.</td></tr>
<tr><td>P1-A18</td><td>Monitoring and sampling
All monitoring and sampling required by the conditions of this environmental authority must be carried out, interpreted, and recorded by an appropriately qualified person.</td></tr>
<tr><td>P1-A19</td><td>Unless otherwise authorised in writing by the administering authority, all laboratory analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (NATA) accreditation for such analyses.
The only exception to this condition is for in situ monitoring of pH, electrical conductivity, and total chlorine (if used for disinfection).</td></tr>
</table>

P1-A20	An Annual Monitoring Report must be prepared and submitted to the **administering authority** by 30 November each year, for the preceding financial year.
Air	
P1-B1	Odours or airborne contaminants from the **activity** must not cause environmental nuisance to any **sensitive place** or **commercial place**.
P1-B2	Dust and particulate matter emissions must not exceed the following concentrations at any **sensitive place** or **commercial place**: a) Dust deposition of 120 milligrams per square metre per **day**, when **monitored** in accordance with Australian Standard AS 3580.10.1 (or more recent editions); or b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM_{10}) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, when **monitored** in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the **administering authority**.
Noise	
P1-C1	Noise generated by the **activity** must not cause environmental nuisance to any **sensitive place** or **commercial place**.
Waste	
P1-D1	All waste must be lawfully reused, recycled or lawfully removed to a facility that can lawfully accept the waste.
P1-D2	Waste and wastewater generated off the **activity** site cannot be treated or released at the **activity** site.
Water	
P1-E1	Contaminants must not be released to any **waters**.
Third party provision	
P1-F1	**Effluent** and **wastewater** may be removed from the site and provided to a person with the written consent of that person.
P1-F2	**Records** of **effluent** and **wastewater** removed from the site and supplied to a person must be made and include the following: a) the person the **effluent** or **wastewater** was supplied to; and b) the Escherichia coli (E.coli) (cfu/100mL) concentration of the **effluent** or **wastewater** supplied; and c) the volume of **effluent** or **wastewater** supplied; and d) the mode of transport of the **effluent** or **wastewater** supplied; and e) the property (address and lot on plan) where the supplied **effluent** or **wastewater** was released; and f) the date the **effluent** or **wastewater** was supplied.
P1-F3	When directed by the **administering authority**, provision of **effluent** or **wastewater** to a person must cease immediately.

Rehabilitation	
P1-G1	**Land** that has been disturbed for **activities** conducted under this environmental authority must be rehabilitated in a manner such that: a) suitable native species of vegetation for the location are established and sustained for earthen surfaces; and b) potential for erosion is minimised; and c) soils are not dispersive; and d) the quality of water released from the site, including seepage, does not cause environmental harm; and e) potential for environmental nuisance caused by dust is minimised; and f) the water quality of any residual water body does not have potential to cause environmental harm; and g) the final landform is stable and protects public safety.

Part 2 – Specific conditions for textile manufacturing (wool scouring)

Environmentally relevant activity	**Location**
ERA 40 - Textile manufacturing 2 - Manufacturing or processing, in a year, a total of 100t or more of scouring or carbonising wool	Lot 2 on SP351530, 126 Evora Road, Blackall.

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with *Part 1 – General conditions for all activities*, and the following site-specific conditions of approval.

Condition number	**Condition**
Air	
P2-A1	**Wastewater** generated by the **activity** must only be released to the **Wastewater Disposal Area,** and only released via above ground spray irrigation.
P2-A2	**Wastewater** spray must not move beyond the **Wastewater Disposal Area**.
P2-A3	Warning signs must be installed and maintained at the **Wastewater Disposal Area** with clearly visible wording that states ‘Recycled Water – Avoid Contact – Do Not Drink’.
Waste	
P2-B1	Written procedures must be developed and implemented which ensure that the wastewater treatment plant can manage fluctuations in influent volume and Total Nitrogen concentrations.
Land	
P2-C1	**Wastewater** generated by the **activity** must only be released to the **Wastewater Disposal Area** when the following requirements are complied with: a) the release limits for each quality characteristic are complied with at the **monitoring** locations and timing as specified in *P2 - Table 1 – Contaminant limits for releases to land*; and b) releases are **monitored** at all **monitoring** locations and at the minimum **monitoring** frequency

for each quality characteristic specified in *P2 - Table 1 – Contaminant limits for releases to land.*

P2 - Table 1 - Contaminant limits for releases to land

Monitoring location	Timing	Quality characteristic (units)	Release limits			Minimum monitoring frequency
			Minimum	Mean Refer to P2-C4	Maximum	
Flow gauge / metre reading	At all times	Irrigation volume (L/day)	-	**<** 385,000	-	Daily
		Irrigation rate of **wastewater** only (mm/day)	-	**<** 2.6	20	Daily
		Irrigation rate of **wastewater** shandy (mm/day)	-	**<** 4	30	Daily
Outflow of the treated **wastewater** storage lagoon as labelled in *Appendix 1 – Site Plan*		**Total Phosphorus** TP (mg/L as P)	-	**<** 30	-	Every two months – NATA testing
						Monthly – in situ testing
		Total Nitrogen TN (mg/L as N)	-	**<** 200	-	Monthly – NATA testing
						Weekly – in situ testing
		Total Nitrogen TN load (kg/**ha**/month)	-	**<** 100	-	Monthly
		Electrical Conductivity (EC) (µS/cm)	-	**<** 3,000	-	Weekly
		Total dissolved salts load (kg/**ha**/month)	-	**<** 1,600	-	Monthly
		pH (pH units)	6	-	8.5	Monthly
		Escherichia coli (E.coli) cfu/100mL)	-	-	4,000	Every two months – NATA testing
						Monthly – in situ testing

	Note: where the monitoring frequency states a frequency for in-situ testing and NATA testing, both are required.
P2-C2	**Monitoring** required by condition P2-C1 must be undertaken when **wastewater** is being released, unless **wastewater** release has ceased for longer than the relevant parameters specified minimum frequency (e.g., if pH was only required to be **monitored** once a week, then a pH sample would not be required after the first week following cessation of the release).
P2-C3	The irrigation rate **monitoring** required by condition P2-C1 must be calculated based on the total irrigation area, and the actual volume of **wastewater** irrigated on that same day.
P2-C4	**Mean** calculations required by condition P2-C1 must be calculated from consecutive samples taken over a 6-month period (on a rolling basis for limit calculations) where consecutive samples are taken at the minimum frequency specified in *P2 - Table 1 - Contaminant limits for releases to land.*
P2-C5	Volume **monitoring** required by condition P2-C1 must be undertaken using a flow meter.
P2-C6	**Total Nitrogen** TN load calculation required by condition P2-C1 must be calculated using the formula: $((Total\ volume\ irrigated\ in\ the\ month\ in\ L \div 15) \times$ $mean\ Total\ Nitrogen\ concentration\ monitored\ in\ the\ month\ in\ mg/L) \div 1{,}000{,}000$
	Note the following example: $((11{,}000{,}000\ L\ irrigated\ in\ the\ month \div 15) \times 150\ mg/L\ mean\ Total\ Nitrogen\ in\ the\ month) \div 1{,}000{,}000$ $= 110\ kg/\boldsymbol{ha}/month$
P2-C7	The **Wastewater Disposal Area** must contain irrigation infrastructure capable of delivering a minimum surface area of 150,000 m^2 of wetted coverage.
P2-C8	Before **wastewater** can be released to the **Wastewater Disposal Area,** an **appropriately qualified person** must confirm that the irrigation infrastructure has been installed within the **Wastewater Disposal Area** and that the irrigation has actual wetted coverage of 150,000 m^2.
P2-C9	The **Wastewater Disposal Area** must be inspected every 2 years by an **appropriately qualified person** and confirmed by the **appropriately qualified person** as having irrigation wetted coverage of 150,000 m^2.
P2-C10	The release of **wastewater** to the **Wastewater Disposal Area** must be undertaken in a manner that ensures even average distribution of **wastewater** across the entire wetted coverage area within the **Wastewater Disposal Area** over 6 months rolling.
P2-C11	**Records** to demonstrate compliance with conditions P2-C8, P2-C9, and P2-C10 must be kept.
P2-C12	When soil in the **Wastewater Disposal Area** is **saturated**, **wastewater** must not be released to land.
P2-C13	Wet weather storage with a minimum volume of 10,000,000 L must be installed and maintained on the site for the storage of **wastewater**.
P2-C14	Wet weather storage required by condition P2-C13 must be constructed, maintained and operated to: a) ensure a freeboard of at least 10% of the total storage capacity is maintained: and b) ensure no more than 35% of the total storage volume is sludge; and c) prevent the overflow of **wastewater**; and d) prevent stormwater runoff into the storage; and e) be **lined** and constructed to prevent seepage and leakage.

P2-C15	The wet weather storage must be inspected every 2 years by an **appropriately qualified person** and confirmed by the **appropriately qualified person** as complying with condition P2-C14.
P2-C16	**Records** to demonstrate compliance with conditions P2-C15 must be kept.
P2-C17	All organic material removed from vegetation growing in the **Wastewater Disposal Area**, must be transported and disposed of in an area other than in the **Wastewater Disposal Area**.
P2-C18	Ponding of **wastewater** within the **Wastewater Disposal Area** must not occur after irrigation has ceased.
P2-C19	Contaminants must not run off to areas beyond the **Wastewater Disposal Area**.
P2-C20	The **Wastewater Disposal Area** must be vegetated with Rhodes grass over the 9 ha area labelled '21e Centre Pivot Irrigation Area', and Buffel/Mitchell grass over the 6 ha area labelled '22a and 22b PV Area', and maintained in a **viable state**.
P2-C20B	The **Wastewater Disposal Area** must not be used for growing human food crops.
P2-C21	**Livestock** must be excluded from the **Wastewater Disposal Area** at all times.
P2-C22	**Sludge** pressing and drying must be **lined** and covered for the dewatering and storage of **sludge**.
P2-C23	All reasonable and practicable **measures** must be taken to control **invasive plants** within the **Wastewater Disposal Area**.
P2-C24	**Records** to demonstrate compliance with conditions P2-C23 must be kept.
P2-C25	Until 30 June 2032, a minimum of 67,000,000 L of bore water must be available each year to shandy the **wastewater** irrigation.
P2-C26	After 30 June 2032, a minimum of 44,000,000 L of bore water must be available each year to shandy the **wastewater** irrigation.
P2-C27	Water used to shandy the **wastewater**, must have an **Electrical Conductivity 1:5 (EC)** below 1,200 µS/cm.
P2-C28	Detergents released to the **Wastewater Disposal Area,** must be biodegradable detergents such as: a) secondary alcohol ethoxylates; or b) linear alcohol ethoxylates; or c) synthetic and branched alcohol ethoxylates.
Vegetation Monitoring	
P2-D1	By *20 January 2028* a Vegetation Monitoring Program (VMP) must be: a) designed by an **appropriately qualified person** to **monitor** the effects of the **activity** on the vegetation within the **Wastewater Disposal Area**; and b) reviewed annually by an **appropriately qualified person** and endorsed as being appropriate to **monitor** the effects of the **activity** on the vegetation within the **Wastewater Disposal Area**.
P2-D2	The VMP must include quarterly **monitoring** that includes: a) visual **monitoring** of vegetation within the **Wastewater Disposal Area**; and b) **monitoring** of indicators for waterlogging, water stress, salinity stress, nutrient toxicities and deficiencies; and c) **monitoring** of **invasive plants** species, abundance and locations; and d) representative photographs of vegetation within the **Wastewater Disposal Area**; and

	e) a calculation of the total percentage of vegetation cover (from aerial / drone view) in a **viable state** over the **Wastewater Disposal Area**; and f) **Total Nitrogen** load in kg/month of organic material that was harvested and removed from the **Wastewater Disposal Area**; and g) a comparison of results of the **monitoring** undertaken in accordance with this condition with previous **monitoring** required under this condition, including graphical representations showing relevant limits, and trends.
P2-D3	If a calculation made under the VMP demonstrates that the percentage of vegetation cover in a **viable state** within the **Wastewater Disposal Area** is below 80%: a) within 10 **business days** of that calculation being made, recommended action(s) to restore at least 80% of the vegetation cover to a **viable state** in the **Wastewater Disposal Area** must be prepared by an **appropriately qualified person;** and b) within 20 **business days** of receiving those recommended action(s), **measures** must be taken to implement the recommended action(s), or a different timeframe for taking such action(s) agreed to in writing by the **administering authority**.
P2-D4	The VMP must be submitted to the **administering authority** upon request and within a timeframe specified (which must not be less than 2 **business days**) by the **administering authority.**
P2-D5	Any comments made by the **administering authority** on the VMP must be addressed to the reasonable satisfaction and within a timeframe specified (which must not be less than 5 **business days**) by the **administering authority**.
P2-D6	A report summarising the results of the VMP (VMP Report) must be prepared by an **appropriately qualified person** and submitted to the **administering authority** with the Annual Monitoring Report as required under condition P1-A20.
P2-D7	The VMP Report required by P2-D6 must include: a) a summary of the previous 12 months **monitoring** data obtained under the VMP in the relevant financial year; and b) an evaluation of all relevant data obtained under the VMP, including all relevant historical data and any data trends; and c) a description of all actions taken to improve the **viable state** of vegetation in the **Wastewater Disposal Area** in response to a requirement under condition P2-D3.
Land Monitoring	
P2-E1	By *20 January 2028* a land monitoring program (LMP) must be: a) designed by an **appropriately qualified person** to **monitor** the effects of the **activity** on **land**; and b) reviewed annually by an **appropriately qualified person** and endorsed as being appropriate to monitor the effects of the **activity** on **land**.
P2-E2	The LMP required must include: a) taking soil samples at a soil depth range of 0-20cm, 50cm, 70-80cm from monitoring locations specified in *P2 - Table 2 – Land Monitoring Plan*; and b) **monitoring** at the monitoring locations, and at the minimum monitoring frequency, and for the quality characteristics specified in *P2 – Table 2 – Land Monitoring Plan*. **P2 - Table 2 – Land Monitoring Plan**

<table>
<tr><td></td><td>
<table>
<tr><th>Monitoring locations</th><th>Quality characteristic (units)</th><th>Minimum monitoring frequency</th></tr>
<tr><td rowspan="10">At least one reference site, and representative locations within the Wastewater Disposal Area.</td><td>Soil texture class</td><td>Before activity operation</td></tr>
<tr><td>Emerson aggregate stability test</td><td rowspan="9">Before activity operation, and every year thereafter</td></tr>
<tr><td>pH (pH units)</td></tr>
<tr><td>Total nitrogen (mg/kg)</td></tr>
<tr><td>Nitrate (mg/kg)</td></tr>
<tr><td>Colwell phosphorus (mg/kg)</td></tr>
<tr><td>Electrical Conductivity 1:5 (EC) (µS/cm)</td></tr>
<tr><td>Exchangeable sodium percentage (%)</td></tr>
<tr><td>Potassium (mg/kg)</td></tr>
</table>
</td></tr>
<tr><td>P2-E3</td><td>The LMP required by condition P2-G2 must include observations recorded at the time soil samples are taken, that record the extent to which there is evidence of:
a) wastewater disposal induced surface runoff occurring to areas outside the Wastewater Disposal Area; and
b) surface ponding of wastewater occurring.</td></tr>
<tr><td>P2-E4</td><td>The LMP required by condition P2-E2 must include:
a) the development of trigger values; and
b) the development of management actions to mitigate any adverse impacts caused, or likely to be caused, by the activity; and
c) the implementation of the management actions if an LMP trigger value is reached.</td></tr>
<tr><td>P2-E4B</td><td>The management actions required by condition P2-E4 must include the requirement to:
a) shandy the wastewater releases and leach the soils to manage rootzone salinity; and
b) apply gypsum to manage soil stability and dispersive soils; and
c) notify the administering authority if any soil sample has an Electrical Conductivity 1:5 (EC) above 6,000 µS/cm.</td></tr>
<tr><td>P2-E5</td><td>The LMP required by condition P2-E2 must be submitted to the administering authority upon request, and within a timeframe specified (which must be at least 2 business days) by the administering authority.</td></tr>
<tr><td>P2-E6</td><td>Any comments made by the administering authority on the LMP must be addressed to the reasonable satisfaction of, and within a timeframe specified (which must be at least 5 business days) by the administering authority.</td></tr>
</table>

P2-E7	A report summarising the results of the LMP (LMP Report) must be prepared by an **appropriately qualified person** and submitted to the **administering authority** with the Annual Monitoring Report as required under P1-A20.
P2-E8	The LMP Report required by condition P2-E7 must include: a) a summary of the **monitoring** data obtained under the LMP in the relevant financial year; and b) an evaluation of all relevant data obtained under the LMP, and include graphical representations showing all relevant historical data and a comparison of data trends against LMP **trigger values**; and c) a description of all actions taken to minimise the environmental risk in response to information obtained through the LMP, including actions taken where **trigger values** in the LMP were reached; and d) the results of those management actions.
P2-E9	The LMP Report required by condition P2-E7 must include analysis and interpretation of **monitoring** results by an **appropriately qualified person** that determines: a) the ongoing capacity of the **Wastewater Disposal Area** to sustainably receive contaminant releases from the **activity**, including but not limited to the capacity of the **Wastewater Disposal Area** to sustainably adsorb nutrients from the **activity**; and b) whether the **Wastewater Disposal Area** is sufficient in size for the volume of **wastewater** disposed of to it; and c) whether the **irrigation regime** is leaching salts below the rootzone of the Rhodes grass in the **Wastewater Disposal Area;** and d) whether contaminants generated by the **activity** have migrated beyond the **Wastewater Disposal Area**; and e) how the soil in the **Wastewater Disposal Area** has been impacted by the **activity**, including but not limited to an assessment of the build-up of salinity and sodicity in the soil.
P2-E10	The LMP Report required by condition P2-E7 must include recommended action(s) to mitigate any adverse impacts caused, or likely to be caused, by the **activity** in respect of contaminant releases to **land**.
P2-E11	Any action(s) recommended under condition P2-E10 in the LMP Report must be undertaken: a) as soon as practicable, but no later than 10 **business days** after receiving the LMP Report; or b) another period agreed to in writing by the **administering authority**.
Groundwater	
P2-F1	By *20 January 2028* a **groundwater** monitoring program (GWMP) must be: a) designed by an **appropriately qualified person** with experience and qualifications in **groundwater monitoring**, to **monitor** the effects of the **activity** on **groundwaters** outside of the **Wastewater Disposal Area**; and b) reviewed annually by an **appropriately qualified person** and endorsed as being appropriate to **monitor** the effects of the **activity** on **groundwaters**.
	Note: the administering authority acknowledges that the site includes a low permeable hard layer around 800mm deep in the soil, therefore this GWMP is aimed to detect if an activity contaminated groundwater lens above this hard layer moves outside of the Wastewater Disposal Area towards the site boundary. The target for this GWMP is not the aquifer 40m deep.

<table>
<tr><td>P2-F2</td><td>The GWMP required by condition P2-F1 must include:
a) clearly stated aims and objectives; and
b) a monitoring program that is developed using the latest version of the administering authority's guideline Using monitoring data to assess groundwater quality and potential environmental impacts, and that specifies:
i) groundwater flow characteristics for the groundwater that could be impacted by the activity (potentially impacted groundwater (GW)), including a hydraulic gradient, groundwater flow rates; and
ii) the environmental values of the potentially impacted GW; and
iii) risk of contaminants moving offsite; and
iv) cumulative impacts on the potentially impacted GW and offsite land; and
v) the spatial extent of the monitoring program, including the location of monitoring bores required under condition P2-F4; and
vi) the temporal context of the monitoring program, including timing and frequency of sampling.</td></tr>
<tr><td>P2-F3</td><td>An appropriately qualified person must install groundwater monitoring bores that enable monitoring from:
a) the uppermost aquifer (likely the water lens generated by the activity above the 800mm deep fragipan); and
b) control location(s) that are suitable for establishing a background or other referable environmental value for the potentially impacted GW; and
c) test location(s) that are suitable for determining the extent to which the potentially impacted GW and offsite land are, or are potentially, being impacted by the activity; and
d) for potentially impacted GW, hydraulically up-gradient bore(s) and hydraulically down-gradient bore(s) of the activity.</td></tr>
<tr><td>P2-F4</td><td>Monitoring under the GWMP, must include:
a) monitoring of the receiving environment at the monitoring location(s), and at the minimum monitoring frequency, and for the quality characteristics specified in P2 - Table 3 – Groundwater Monitoring Program.
P2 - Table 3 – Groundwater Monitoring Program
<table>
<tr><th>Monitoring locations</th><th>Quality characteristic (units)</th><th>Minimum monitoring frequency</th></tr>
<tr><td rowspan="6">At least one site within the Wastewater Disposal Area, and more than 3 locations surrounding, and greater than 8m distance from the Wastewater Disposal Area</td><td>pH</td><td rowspan="6">Before activity operation, then quarterly thereafter</td></tr>
<tr><td>Electrical Conductivity (µS/cm)</td></tr>
<tr><td>Total Nitrogen TN (mg/L)</td></tr>
<tr><td>Ammonia (mg/L)</td></tr>
<tr><td>Calcium, Chloride, Potassium, Magnesium, Sodium, Sulphate, Bicarbonate, and Carbonate (mg/L)</td></tr>
<tr><td>Standing groundwater level (m)</td></tr>
</table></td></tr>
<tr><td>P2-F5</td><td>The GWMP required by condition P2-F1 must include:</td></tr>
</table>

	a) the development of **trigger values** for the potentially impacted GW; and b) procedures to determine when **trigger values** are reached; and c) the development of management actions to mitigate any adverse impacts caused, or likely to be caused, by the **activity**; and d) the implementation of the management actions if an GWMP **trigger value** is reached.
P2-F6	The management actions required by condition P2-F5 must include the requirement to build a woodchip interception trench to 900mm soil depth around the outside of the **Wastewater Disposal Area** if the GWMP detects **groundwater** contamination from the **activity** outside of the **Wastewater Disposal Area,** that would be mitigated from a woodchip interception trench.
P2-F7	The GWMP required by condition P2-F1 must be submitted to the **administering authority** upon request and within a timeframe specified (which must be at least 1 **business day**) by the **administering authority**.
P2-F8	Any comments made by the **administering authority** on the GWMP must be addressed to the reasonable satisfaction and within a timeframe specified (which must be at least 5 **business days**) by the **administering authority**.
P2-F9	A report summarising the results of the GWMP (GWMP Report) must be prepared by **an appropriately qualified person(s)** and submitted to the **administering authority** with the Annual Monitoring Report as required under condition P1-A20.
P2-F10	The GWMP Report required by condition P2-F9 must include: a) a summary of the **monitoring** data obtained under the GWMP in the relevant financial year; and b) an evaluation of all relevant data obtained under the GWMP, including graphical representations showing all relevant historical data and a comparison of data trends against the GWMP **trigger values**; and c) a description of all actions taken to minimise the environmental risk in response to data or other information obtained during the GWMP, including actions taken where GMPW **trigger values** were reached; and d) the results of those management actions.
P2-F11	The GWMP Report required by condition P2-F9 must include analysis and interpretation of **monitoring** results by an **appropriately qualified person** that determines: a) whether any deep drainage of contaminants from the **activity** into **groundwater** has occurred; and b) how the **groundwater** has been impacted by the **activity**; and c) whether contaminants from the **activity** are likely impacting the **land** and **waters** of neighbouring lots.
P2-F12	The GWMP Report required by condition P2-F9 must include recommended action(s) to mitigate any adverse impacts caused, or likely to be caused, by the **activity** in respect of potentially impacted GW.
P2-F13	Any action(s) recommended by the GWMP Report must be undertaken: a) as soon as practicable, and no more than 10 **business days** after receiving the GWMP monitoring report; or b) another period agreed to in writing by the **administering authority**.

Part 3 – Specific conditions for sewage treatment

Environmentally relevant activity	Location
ERA 63 - Sewage Treatment 1(a)(i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP - if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	Lot 2 on SP351530, 126 Evora Road, Blackall.

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with *Part 1 – General conditions for all activities*, and the following site-specific conditions of approval.

<table>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td colspan="2">Air</td></tr>
<tr><td>P3-A1</td><td>Effluent generated by the activity must only be released to the Effluent Disposal Area, and only released via above ground spray irrigation.</td></tr>
<tr><td>P3-A2</td><td>Effluent spray must not move beyond the Effluent Disposal Area.</td></tr>
<tr><td>P3-A3</td><td>Warning signs must be installed and maintained at the Effluent Disposal Area with clearly visible wording that states ‘Recycled Water – Avoid Contact – Do Not Drink’.</td></tr>
<tr><td colspan="2">Waste</td></tr>
<tr><td>P3-B1</td><td>Written procedures must be developed and implemented which ensure that the sewage treatment plant can manage fluctuations in influent volume and Total Nitrogen concentrations.</td></tr>
<tr><td colspan="2">Land</td></tr>
<tr><td>P3-C1</td><td>Effluent generated by the activity must only be released to the Effluent Disposal Area when the following requirements are complied with:
a) the release limits for each quality characteristic are complied with at the monitoring locations and timing as specified in P3 - Table 1 – Contaminant limits for releases to land; and
b) releases are monitored at all monitoring locations and at the minimum monitoring frequency for each quality characteristic specified in P3 - Table 1 – Contaminant limits for releases to land.
P3 - Table 1 - Contaminant limits for releases to land
<table>
<tr><th rowspan="2">Monitoring location</th><th rowspan="2">Timing</th><th rowspan="2">Quality characteristic (units)</th><th colspan="3">Release limits</th><th rowspan="2">Minimum monitoring frequency</th></tr>
<tr><th>Minimum</th><th>Mean
Refer to P3-C4</th><th>Maximum</th></tr>
<tr><td>Flow gauge / metre reading</td><td rowspan="3">At all times</td><td>Irrigation volume (L/day)</td><td>-</td><td>< 2,800</td><td>-</td><td>Daily</td></tr>
<tr><td>Outflow of the treated effluent storage tank</td><td>Total Nitrogen TN (mg/L as N)</td><td>-</td><td>< 60</td><td>-</td><td>Quarterly</td></tr>
<tr><td></td><td>Electrical Conductivity (EC) (µS/cm)</td><td>-</td><td>< 1,600</td><td>-</td><td>Quarterly</td></tr>
</table>
</td></tr>
</table>

			pH (pH units)	6	-	8.5	Quarterly
			Escherichia coli (E.coli) cfu/100mL)	-	-	4,000	Quarterly
P3-C2	**Monitoring** required by condition P3-C1 must be undertaken when **effluent** is being released, unless **effluent** release has ceased for longer than the relevant parameters specified minimum frequency (e.g., if pH was only required to be **monitored** once a week, then a pH sample would not be required after the first week following cessation of the release).						
P3-C3	The irrigation rate **monitoring** required by condition P3-C1 must be calculated based on the total irrigation area, and the actual volume of **effluent** irrigated on that same day.						
P3-C4	**Mean** calculations required by condition P3-C1 must be calculated from consecutive samples taken over a 3-month period (on a rolling basis for limit calculations) where consecutive samples are taken at the minimum frequency specified in *P3 - Table 1 - Contaminant limits for releases to land.*						
P3-C5	Volume **monitoring** required by condition P3-C1 must be undertaken using a flow meter.						
P3-C6	The **Effluent Disposal Area** must contain irrigation infrastructure capable of delivering a minimum surface area of 2,000 m^2 of wetted coverage.						
P3-C7	Before **effluent** can be released to the **Effluent Disposal Area,** an **appropriately qualified person** must confirm that the irrigation infrastructure has been installed within the **Effluent Disposal Area** and that the irrigation has actual wetted coverage of 2,000 m^2.						
P3-C8	The release of **effluent** to the **Effluent Disposal Area** must be undertaken in a manner that ensures even distribution of **effluent** across the entire wetted coverage area within the **Effluent Disposal Area**.						
P3-C9	**Records** to demonstrate compliance with conditions P3-C6, P3-C7, and P3-C8 must be kept.						
P3-C10	When soil in the **Effluent Disposal Area** is greater than 80% moisture, **effluent** must not be released to land.						
P3-C11	Wet weather storage with a minimum volume of 20,000 L must be installed and maintained on the site for the storage of **effluent**.						
P3-C12	All organic material removed from vegetation growing in the **Effluent Disposal Area**, must be transported and disposed of in an area other than in the **Effluent Disposal Area**.						
P3-C13	Ponding of **effluent** within the **Effluent Disposal Area** must not occur after irrigation has ceased.						
P3-C14	Contaminants must not run off to areas beyond the **Effluent Disposal Area**.						
P3-C15	The **Effluent Disposal Area** must be vegetated and maintained with grass in a **viable state**.						
P3-C16	**Sludge** pressing and drying areas must be **lined** and covered where being used for the dewatering and storage of **sludge**.						

Part 4 – Temporary conditions for the following site

Environmentally relevant activities	Location
ERA 40 - Textile manufacturing 2 - Manufacturing or processing, in a year, a total of 100t or more of scouring or carbonising wool	Lot 2 on SP351530, 126 Evora Road, Blackall.
ERA 63 - Sewage Treatment 1(a)(i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP - if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the conditions of *Part 1, Part 2, and Part 3*, and the following temporary Part 4 conditions that end on 20 January 2033. **Part 4 conditions cease to be in effect after 20 January 2033.**

Condition number	Condition
Air	
P4-A1	**Residual soil** and **biosolids** generated by the **activity** may only be released to the **Wastewater Disposal Area** until 20 January 2033.
	*Note: Part 4 of this permit is temporary, meaning **residual soil** and **biosolids** are not permitted to be released to land after 20 January 2033, unless an amendment application is applied for and approved for the extension of this timeframe.*
P4-A2	Public access to the **Wastewater Disposal Area** must be prevented.
Land	
P4-B1	**Residual soil** and **biosolids** must only be released to the **Wastewater Disposal Area** when: a) mixed through the disposal area soil at a soil depth greater than 40 mm deep; and b) released at an application rate no greater than 37 mm per year; and c) no greater than 47 tonnes per week of **residual soil** is released to land; and d) no greater than 26 tonnes per week of **biosolids** is released to land.
P4-B2	The release of **residual soil** and **biosolids** to the **Wastewater Disposal Area** must be undertaken in a manner that ensures even distribution of **residual soil** and **biosolids** across the entire **Wastewater Disposal Area.**
P4-B3	**Records** to demonstrate compliance with conditions P4-B1, and P4-B2 must be kept.
P4-B4	By 20 January 2028 a **residual soil** and **biosolids** investigation program (SBIP) must be: a) designed and implemented by an **appropriately qualified person** with experience and qualifications in soil monitoring, to monitor the effects of the **activity** on soils.
P4-B5	The SBIP required by condition P4-B4 must include: a) clearly stated aims and objectives; and b) a monitoring program that specifies:

<table>
<tr><td></td><td>i) environmental values of the receiving soil; and
ii) cumulative impacts on the receiving soil and waters; and
iii) the spatial extent of the monitoring program, including the location of monitoring sites; and
iv) the temporal context of the monitoring program, including the timing and frequency for sampling.</td></tr>
<tr><td>P4-B6</td><td>The SBIP required must include:
a) taking residual soil and biosolids samples; and
b) monitoring at the monitoring locations, and at the minimum monitoring frequency, and for the quality characteristics specified in P4 – Table 1 – Monitoring Plan.
P4 - Table 1 – Monitoring Plan
<table>
<tr><th>Monitoring locations</th><th>Quality characteristic (units)</th><th>Minimum monitoring frequency</th></tr>
<tr><td rowspan="12">Residual soil and biosolids blender</td><td>Volume and weight of residual soil released to land</td><td rowspan="12">Before activity operation, and quarterly thereafter</td></tr>
<tr><td>Volume and weight of biosolids released to land</td></tr>
<tr><td>Emerson aggregate stability test</td></tr>
<tr><td>pH (pH units)</td></tr>
<tr><td>Total nitrogen (mg/kg)</td></tr>
<tr><td>Nitrate (mg/kg)</td></tr>
<tr><td>Electrical Conductivity 1:5 (EC) (µS/cm)</td></tr>
<tr><td>Exchangeable sodium percentage (%)</td></tr>
<tr><td>Potassium (mg/kg)</td></tr>
<tr><td>Aluminium (mg/kg)</td></tr>
<tr><td>Cadmium (mg/kg)</td></tr>
</table></td></tr>
<tr><td>P4-B7</td><td>The SBIP required by condition P4-B4 must be designed to monitor the effects of the residual soil and biosolids application to the receiving environment that includes:
a) monitoring at control locations that are suitable for establishing a background or other referable environmental value for the receiving land; and
b) monitoring at test locations that are suitable for determining the extent to which the receiving lands are, or are potentially, being impacted by the activity.</td></tr>
<tr><td>P4-B8</td><td>The SBIP required by condition P4-B4 must include:
a) the development of trigger values for the receiving land; and
b) procedures to determine when trigger values are reached; and
c) the development of management actions to minimise any adverse impacts caused, or likely to be caused, the residual soil and biosolids application; and
d) the implementation of the management actions if a SBIP trigger value is reached.</td></tr>
</table>

P4-B9	The management actions required by condition P4-B8 must include the requirement to cease releasing **residual soil** and **biosolids** to land if the SBIP indicates that the release is adversely impacting the land**.**
P4-B10	A report summarising the results of the SBIP (SBIP Report) must be prepared by an **appropriately qualified person** by 30 November each year for the preceding financial year, and provided to the **administering authority** upon request.
P4-B11	The SBIP Report required by condition P4-B10 must include: a) a summary of the previous 12 months monitoring data obtained under the SBIP in the relevant financial year; and b) an evaluation of all relevant data obtained under the Part 4 SBIP, and Part 2 LMP and GWMP, including graphical representations showing all historical data and a comparison of data trends against SBIP trigger values; and c) a description of all actions taken to minimise the environmental risk in response to data or other information obtained during from the SBIP, including actions taken where SBIP trigger values were reached; and d) the results of those management actions.
P4-B12	The SBIP Report required by condition P4-B10 must include analysis and interpretation of the data and other information obtained through the implementation of the SBIP that determines: a) the ongoing capacity of the receiving **land** to sustainably receive **residual soil** and **biosolids** releases from the **activity**, including but not limited to: i) the capacity of the receiving **land** to sustainably assimilate nutrient and salt loads from the **activity**; ii) how the receiving **lands** have been impacted by the **activity.**
P4-B13	Release of **residual soil** and **biosolids** must cease immediately upon written request by the **administering authority,** if the **administering authority** becomes aware of an environmental concern.

Definitions

Key terms and/or phrases bolded in this environmental authority are defined in this section. Where a word or phrase in this document is not defined in this definitions section, it has the meaning given to it in (in order of priority):

- the *Environmental Protection Act 1994* (EP Act), its regulations or its environmental protection policies;
- the *Acts Interpretation Act 1954*;
- the Macquarie Dictionary (taking account of the context in which the word or phrase is used in this document).

For example, environmental value, environmental harm, environmental nuisance, material environmental harm are defined in the EP Act and groundwater is defined in the Environmental Protection Regulation 2019.

Defined words or phrases in the singular include the plural and vice versa.

Activity means the environmentally relevant activity(ies) to which the relevant part of the environmental authority relates. An activity may be undertaken on the whole or a part of a site.

Administering authority means the Chief Executive administering the *Environmental Protection Act 1994*.

Appropriately qualified person means a person or persons who has professional qualifications, training, skills and experience relevant to the environmental authority (EA) requirements and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods and/or literature.

Biosolids means sewage and **wastewater** treatment generated sludges that have been dried.

Business Day means:

(a) a day that does not occur during the period starting on 20 December in a year and ending 5 January in the following year; or

(b) a day that is not a Saturday or Sunday; or

(c) a public holiday, special holiday or bank holiday in the place in which any relevant act is to be or may be done.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Complaints means an expression of dissatisfaction, concern or report, whether written or verbal, about the **activity** and/or its impact on the environment.

Day means any 24-hour period of a calendar day.

Effluent means the liquid fraction of treated sewage.

Effluent Disposal Area referenced in this environmental authority means the areas identified as ’40 Sewer Effluent Irrigation Area’, in *Appendix 1 – Site Plan*.

Electrical Conductivity 1:5 (EC) means the electrical conductivity measured from a settled mixture of 1 part soil and 5 parts deionized water.

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer.

Ha means hectare which is an area measurement equal to 10,000 square metres.

Invasive plants means any of the invasive plants listed in Schedule 2, Part 2 of the *Biosecurity Act 2014*.

Land means land excluding **waters** and the atmosphere.

Lined means an engineered barrier that prevents the movement of fluids through it.

Livestock means any domesticated animal, and includes sheep, pigs, goats, cattle, deer, buffalo and camels.

Mean is the sum of a collection of numbers divided by the count of numbers in the collection.
E.g., (n1+n2+n3)/3.

Measures has the broadest interpretation and includes plant, equipment, physical objects, monitoring, procedures, actions, directions and competency.

Monitor, monitored and monitoring means monitoring the impact of an **activity** on the receiving environment and includes analysing, assessing, examining, inspecting, measuring, modelling or reporting any of the following matters—

(d) the quantity, quality, characteristics, timing and variability of the release of any contaminant; and

(e) the effectiveness of any control measure; and

(f) the characteristics of, and impact on, the receiving environment.

Person means an individual and a corporation, as per section 32D of the *Acts Interpretation Act 1954*.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment or **release** means to:

(a) deposit, discharge, emit or disturb the contaminant; or

(b) cause or allow the contaminant to be deposited, discharged, emitted or disturbed; or

(c) fail to prevent the contaminant from being deposited, discharged emitted or disturbed; or

(d) allow the contaminant to escape; or

(e) fail to prevent the contaminant from escaping.

Residual soil means soil separated from the wool cleaning / scouring.

Saturated means the soil moisture level is greater than the soil field capacity. Field capacity means the amount of water retained in soil when the soil has been allowed to drain for 24hrs under normal gravity conditions.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, **groundwater**, or surface waters.

Sensitive place includes any of the following places:

(a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or

(b) a motel, hotel or hostel; or

(c) a kindergarten, school, university or other educational institution, or a medical centre or hospital; or

(d) a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or

(e) a public park or garden; or

(f) for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2019; or

(g) the area within the curtilage of any of the above places.

Sludge means any residual, semi-solid material that is produced as a by-product from the activity. Sludge includes dewatered sludge or biosolids as defined in this environmental authority.

Total Nitrogen (TN) means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen, expressed as mg/L as Nitrogen. This includes both the inorganic and organic fraction of nitrogen.

Total Phosphorus (TP) means the sum of the reactive phosphorus, acid-hydrolysable phosphorus and organic phosphorus, as mg/L of Phosphorus. This includes both the inorganic and organic fraction of phosphorus**.**

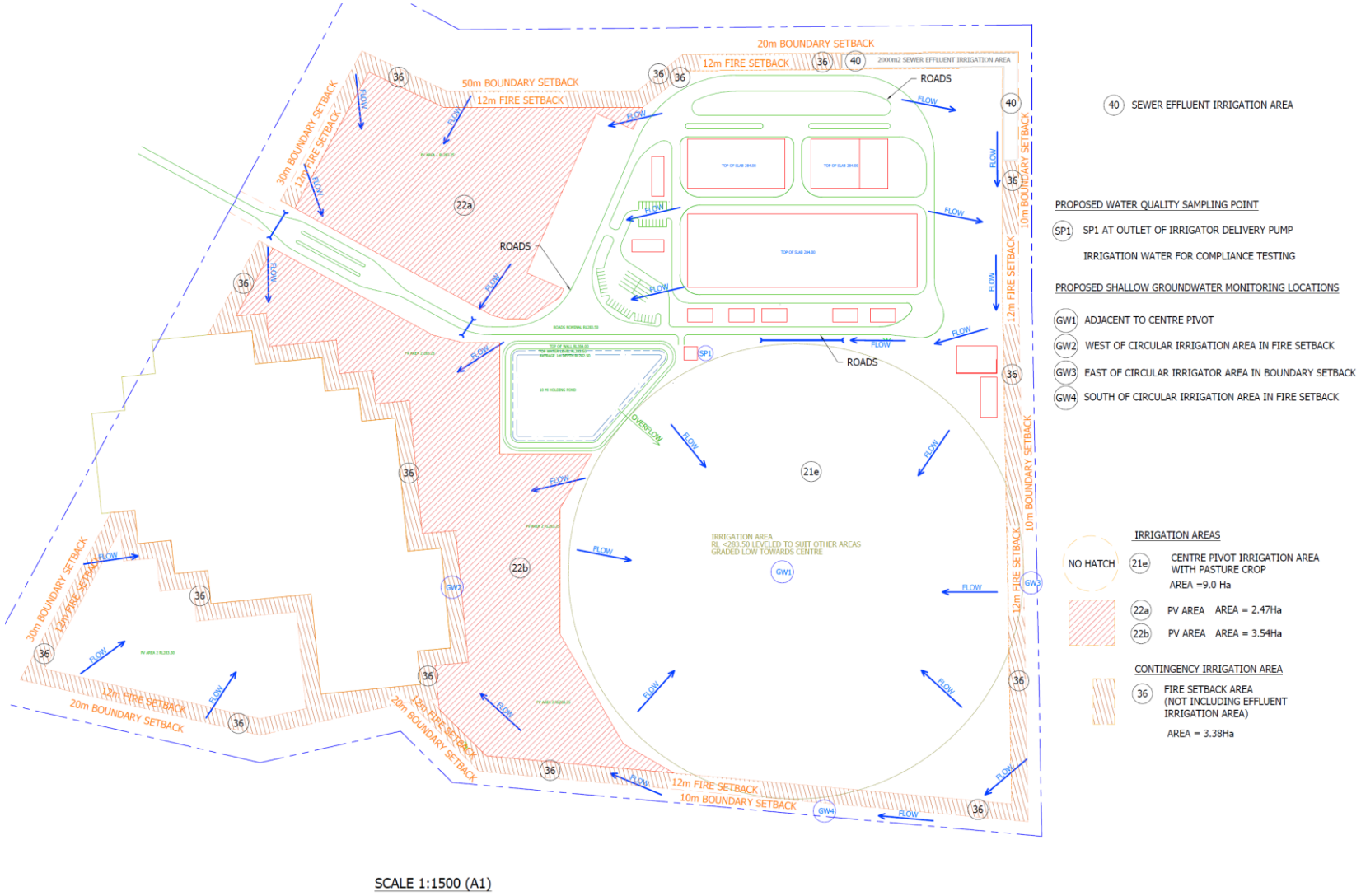
Viable state or viability means able to live and grow.

Wastewater means the liquid fraction of treated wool scour processing water.

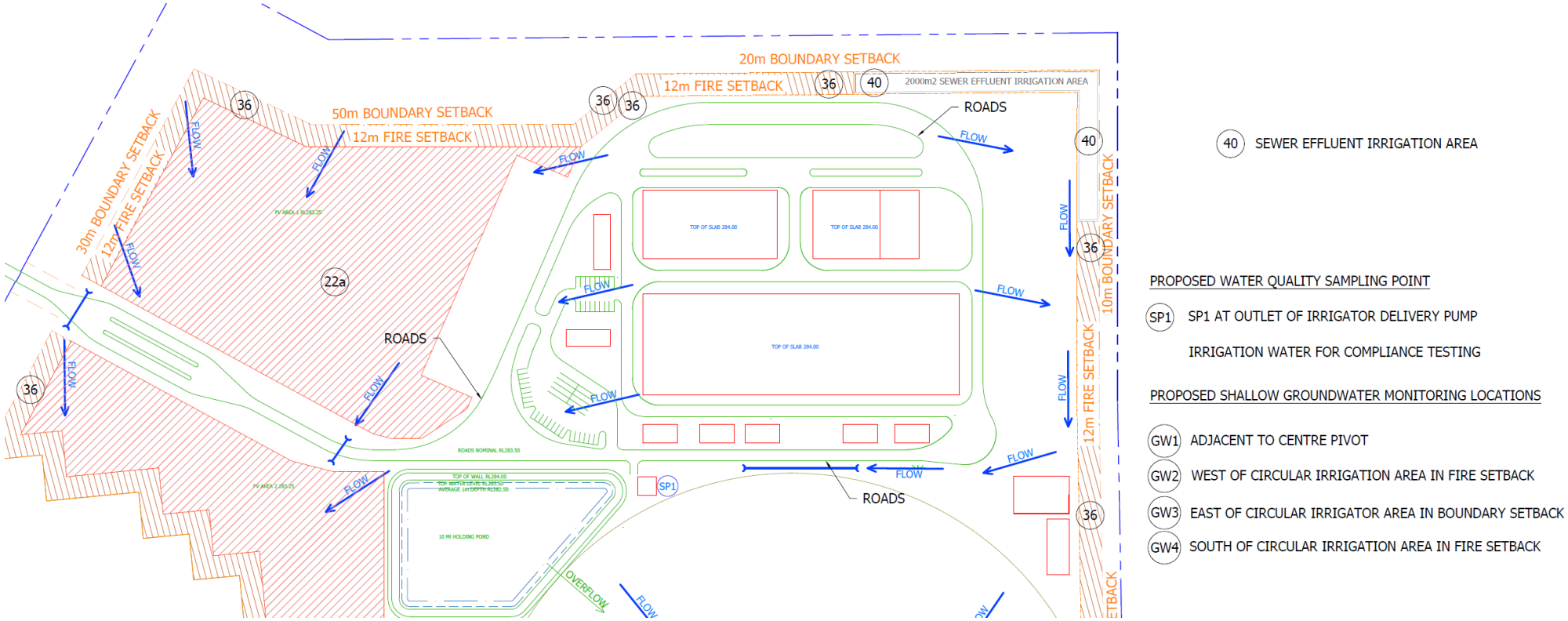
Wastewater Disposal Area referenced in this environmental authority means the areas identified as ‘22e Centre Pivot Irrigation area’ and ‘22a PV area’ and ‘22b PV area’, in Appendix 1 - Site Plan.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and **groundwater** and any part thereof.

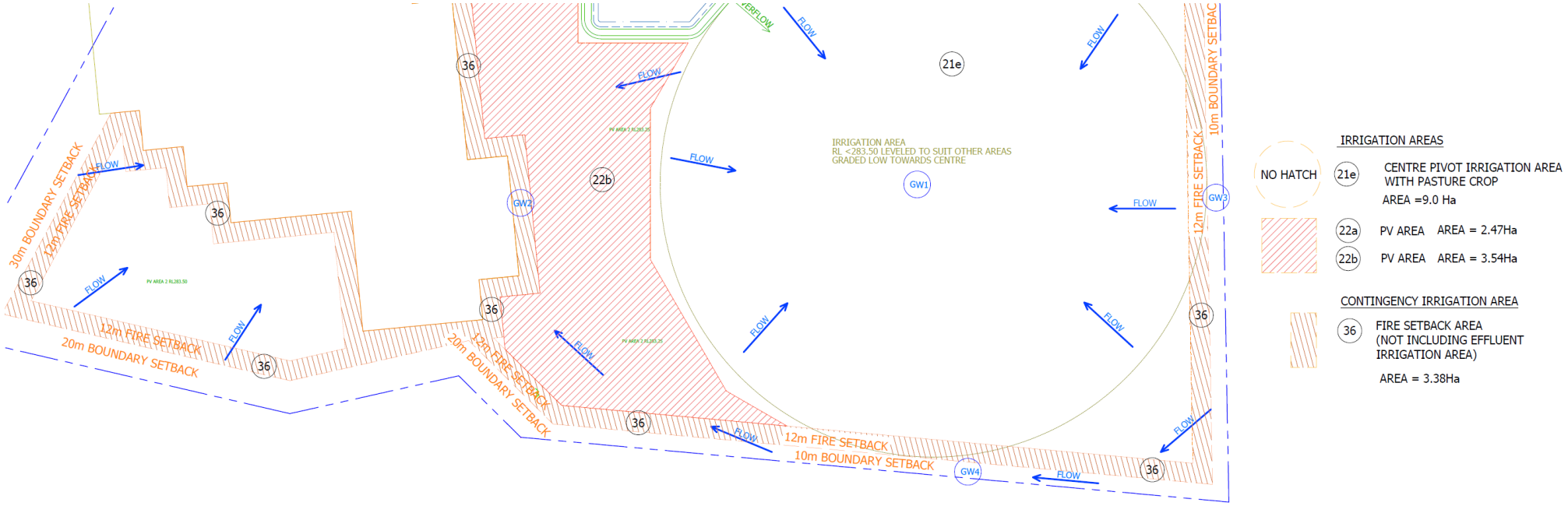
Appendix 1 – Site Plan



Appendix 1 – Site Plan (Zoomed top half)

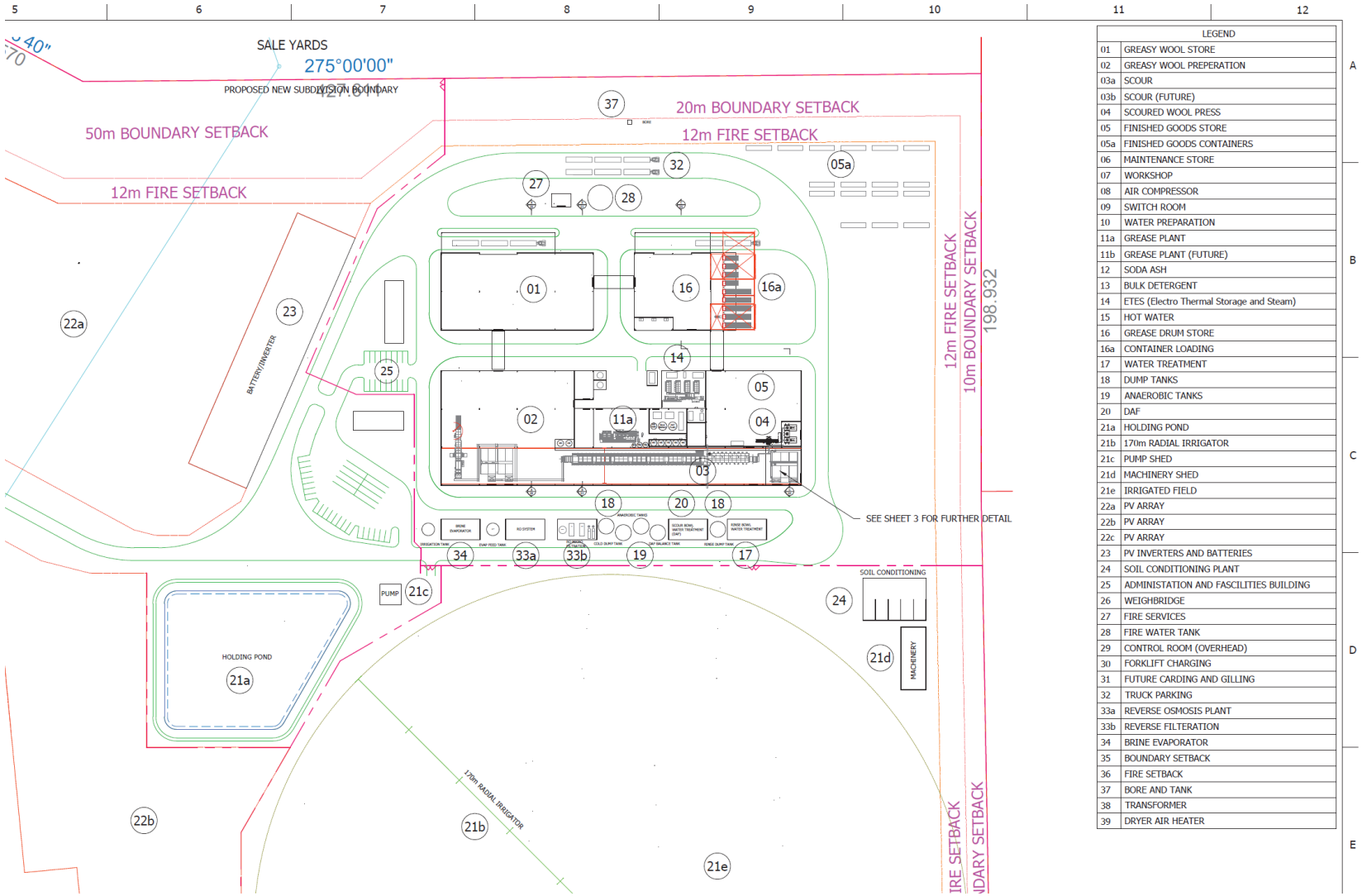


Appendix 1 – Site Plan (Zoomed bottom half)



SCALE 1:1500 (A1)

Appendix 2 – Facility Infrastructure Plan



LEGEND	
01	GREASY WOOL STORE
02	GREASY WOOL PREPERATION
03a	SCOUR
03b	SCOUR (FUTURE)
04	SCOURED WOOL PRESS
05	FINISHED GOODS STORE
05a	FINISHED GOODS CONTAINERS
06	MAINTENANCE STORE
07	WORKSHOP
08	AIR COMPRESSOR
09	SWITCH ROOM
10	WATER PREPARATION
11a	GREASE PLANT
11b	GREASE PLANT (FUTURE)
12	SODA ASH
13	BULK DETERGENT
14	ETES (Electro Thermal Storage and Steam)
15	HOT WATER
16	GREASE DRUM STORE
16a	CONTAINER LOADING
17	WATER TREATMENT
18	DUMP TANKS
19	ANAEROBIC TANKS
20	DAF
21a	HOLDING POND
21b	170m RADIAL IRRIGATOR
21c	PUMP SHED
21d	MACHINERY SHED
21e	IRRIGATED FIELD
22a	PV ARRAY
22b	PV ARRAY
22c	PV ARRAY
23	PV INVERTERS AND BATTERIES
24	SOIL CONDITIONING PLANT
25	ADMINISTATION AND FASCILITIES BUILDING
26	WEIGHBRIDGE
27	FIRE SERVICES
28	FIRE WATER TANK
29	CONTROL ROOM (OVERHEAD)
30	FORKLIFT CHARGING
31	FUTURE CARDING AND GILLING
32	TRUCK PARKING
33a	REVERSE OSMOSIS PLANT
33b	REVERSE FILTERATION
34	BRINE EVAPORATOR
35	BOUNDARY SETBACK
36	FIRE SETBACK
37	BORE AND TANK
38	TRANSFORMER
39	DRYER AIR HEATER

END OF ENVIRONMENTAL AUTHORITY