



Licence number	L9329/2022/1
Licence holder	Penny Operations Pty Ltd.
ACN	618 514 944
Registered business address	LEVEL 1 130 ROYAL STREET EAST PERTH WA 6004
DWER file number	DER2021/000704
Duration	1/07/2022 to 1/09/2032
Date of issue	1/07/2022
Premises details	Penny Gold Project M57/180 and M57/196 Sandstone Shire

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 6 - Mine dewatering	100,000 tonnes per annual period
Category 64 - Class II putrescible landfill site	1,200 tonnes per annual period
Category 85 – Sewage Facility	50 cubic meters per day

This licence is granted to the licence holder, subject to the attached conditions, on 1 July 2022, by:

Alana Kidd

Manager, Resource Industries

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
23/03/2021	W6503/2021/1	New works approval application for construction of prescribed premises
01/07/2022	L9329/2022/1	Licence granted.

Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

General conditions

Infrastructure and equipment (operation)

1. The licence holder must ensure that the site infrastructure listed in Table 1 and located at the corresponding infrastructure location, is maintained, and operated in accordance with the corresponding operational requirement set out in Table 1.

Table 1: Infrastructure, operational requirements, and location

Site infrastructure	Operational requirement	Infrastructure location
Ecofarmer 250 Wastewater treatment plant (WWTP) and pipelines	<ul style="list-style-type: none"> (a) Maintain the WWTP and pipelines in good working order to prevent and manage leaks and spills. (b) Flow meters must be maintained on the WWTP inlet and outlet to the irrigation spray field to ensure approved volume to irrigation field is not exceeded; (c) Sludge must be contained within sealed sludge tanks prior to removal by a licensed waste carrier for disposal to an appropriately authorised facility (d) Spills of wastewater or chemicals outside of a vessel / container must be cleaned up immediately ; and (e) Pipelines must be inspected weekly to check for damages, ruptures and/or leaks 	Schedule 1 as depicted in Figure 1, 2 and 3
Irrigation Sprayfield	<ul style="list-style-type: none"> (a) Wastewater effluent that is discharged to the irrigation area to meet the limits as prescribed in Condition 5. (b) No generated runoff or discharge occurs beyond the boundary of the WWTP sprayfield; (c) Wastewater is evenly distributed over the irrigation area, and that no ponding or pooling occurs. 	Schedule 1 as depicted in Figure 1, 2 and 3
Landfill trenches	<ul style="list-style-type: none"> (a) Class II waste to be disposed to the fenced landfills trenches; (b) The three landfill trenches are to not exceed dimensions: 90 m long, 2 m wide and 2 m deep; (c) The following wastes can be disposed of to the landfill trenches: <ul style="list-style-type: none"> i) Inert waste type 1; ii) Putrescible waste; and iii) Waste meeting the acceptance criteria for Class II landfill cells. (d) Where waste cannot be disposed of to landfill it must be removed from the premises for disposal at an appropriately licensed facility; (e) No stockpiling of waste is to occur; 	Schedule 1 as depicted in Figure 1 and 2

	<p>(f) The active disposal face must be minimised, and deposited wastes must be covered at least fortnightly;</p> <p>(g) All reasonable and practical measures must be taken to ensure that no windblown waste escapes from the Premises and that wind-blown waste is collected on at least a fortnightly basis and returned to the tipping area.</p>	
Dewatering pipelines	<p>(a) Must be inspected weekly to check for damages, ruptures and/or leaks;</p> <p>(b) Pipeline and associated bunds must be maintained in good working condition.</p>	Schedule 1 as depicted in Figure 1
Magenta Pit	<p>(a) At least a 2.5 m freeboard must be maintained within the Magenta pit.</p> <p>(b) Must be inspected at least weekly for freeboard capacity</p>	Schedule 1 as depicted in Figure 1
Turkey nest	<p>(a) Must be Lined with HDPE;</p> <p>(c) Freeboard of 300mm or a 1 in 100 year/72-hour storm event (whichever is greater) must be maintained.</p> <p>(d) Must be inspected at least weekly for freeboard capacity</p>	Schedule 1 as depicted in Figure 1
Bioremediation facility	<p>(a) Only contaminated soil must be accepted to the facility;</p> <p>(b) No more than 1,000 tonnes per annual period of contaminated soil must per processed; and</p> <p>(c) Unauthorised access prevented by a locked access gate.</p>	Schedule 1 as depicted in Figure 1

2. The Licence Holder must ensure the limits specified in Table 2 are not exceeded.

Table 2: Production or design capacity limits

Category ¹	Premises production or design capacity limits
Category 6 - Mine dewatering	100,000 tonnes per annual period
Category 64 - Class II putrescible landfill site	1,200 tonnes per annual period
Category 85 – Sewage Facility	50 cubic meters per day

Note 1: *Environmental Protection Regulations 1987*, Schedule 1.

Emissions

3. The licence holder must ensure that the emissions specified in Table 3 are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 3: Authorised discharge points

Emissions	Discharge point	Discharge point location
Treated effluent	Sprinklers within the irrigation spray field.	As shown in Schedule 1 – Figure 1, 2 and 3
Dewatering water	Magenta pit or Turkey nest	As shown in Schedule 1 – Figure 1
Waste	Landfill trenches	As shown in Schedule 1 – Figure 2

4. The Licence Holder shall ensure that any saline dewatering effluent is only used for dust suppression in a manner that minimises damage to surrounding vegetation.
5. The Licence Holder must ensure that emissions from the discharge point listed in Table 4 for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 6.

Table 4: Emission and discharge limits

Discharge point	Parameter and unit	Limit
Irrigation Sprayfield	Total Phosphorus (mg/L)	120 kg/ha/year
	Total Nitrogen (mg/L)	480 kg/ha/year

Monitoring

6. The works approval holder must monitor inputs and emissions during operations in accordance with Table 5 and 6.

Table 5: Monitoring of inputs

Input	Units	Frequency
<ul style="list-style-type: none"> Inert waste type 1; Putrescible waste; and Waste meeting the acceptance criteria for Class II landfill cells. 	tonnes	Annual records of total waste arriving at landfill depicted in Schedule 1

Table 6: Emissions and discharge monitoring

Monitoring location	Parameter	Unit	Frequency	Method
WWTP outlet	Volumetric flow rate	m ³ /day	Quarterly	Flow metering device
	Biochemical Oxygen Demand	mg/L	Quarterly	Spot sampled in accordance with AS/NZS 5667.1 AS/NZS 5667.10
	Total Suspended Solids	mg/L		
	pH ²	pH units		
	Total Nitrogen	mg/L		
	Total Phosphorus	mg/L		
	Free Chlorine	mg/L		
	Thermo-tolerant Faecal Coliforms	cfu/100 mL		
Magenta Pit lake	Standing water level	Metres below pit crest level	Monthly during discharge	N.A
Dewatering pipeline outlet	Total Dissolved Solids	mg/L	Continuous	Spot sampled in accordance with AS/NZS 5667.1 AS/NZS 5667.10
	pH ¹	pH units		
	Cumulative flow volume	KL		
Groundwater monitoring bores COLSR006 and RPWRC042 - As shown in Schedule 1 – Figure 4	Standing water level	m AHD	Quarterly	Spot sampled in accordance with AS/NZS 5667.11
	pH ¹	pH units		
	Total Dissolved Solids	mg/L		

Note 1: In-field non-NATA accredited analysis permitted.

7. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for the relevant parameters, unless otherwise specified in Table 6.

Records and reporting

8. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
 - (a) the calculation of fees payable in respect of this licence;
 - (b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence; and
 - (c) complaints received under condition 10 of this licence, and
 - (d) monitoring programmes undertaken in accordance with condition 6 of this licence.
9. The books specified under condition 8 must:
 - (a) be legible;
 - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
 - (c) be retained by the licence holder for the duration of the licence; and
 - (d) be available to be produced to an inspector or the CEO as required.
10. The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
 - (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
11. The licence holder must:
 - (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO by 30 June each year an Annual Audit Compliance Report, for the preceding annual period, in the approved form.
12. The licence holder must submit to the CEO by 30 June each year an Annual Environmental Report for the preceding annual period for the conditions listed in Table 5, and which provides information in accordance with the corresponding requirement(s) set out in Table 7.

Table 7: Annual Environmental Report

Conditions	Requirement
Condition 1	<ul style="list-style-type: none"> Summary of inspection and maintenance performed
Conditions 5 and 6	<ul style="list-style-type: none"> volume (in m³) of wastewater applied daily to irrigation area, and monthly cumulative volumes presented in table format; treated wastewater monitoring data in tabulated and graphical form including the sampling date; tabulated quarterly and annual loadings of nitrogen and phosphorus applied to the irrigation area; and an assessment and interpretation of the data.
Condition 6	<ul style="list-style-type: none"> monthly volume (in tonnes) of water discharge into Magenta pit and Turkey nest; dewatering pipeline outlet monitoring data in tabulated and graphical form including the sampling date and NATA laboratory reports; groundwater monitoring bore data in tabulated and graphical form including the sampling date and NATA laboratory reports; an assessment and interpretation of the data.
Condition 10	<ul style="list-style-type: none"> complaints summary
Condition 11	<ul style="list-style-type: none"> include Annual Audit Compliance Report
N/A	<ul style="list-style-type: none"> summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken

Definitions

In this licence, the terms in Table 8 have the meanings defined.

Table 8: Definitions

Term	Definition
ACN	Australian Company Number.
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
Annual period	a 12 month period commencing from 1 January until 31 December in the same year.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples.
AS/NZS 5667.10-1998	Australian/New Zealand Standard: Water quality – sampling – guidance on sampling of waste waters.
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 Water Quality – Sampling – Guidance on sampling of groundwaters
Books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the Department. “submit to / notify the CEO” (or similar), means either: Director General Department administering the Environmental Protection Act 1986 Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
cfu/100ml	Colony forming unit per 100 millilitres.
Department	means the department established under section 35 of the Public Sector Management Act 1994 (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
Discharge	has the same meaning given to that term under the EP Act.
Emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986 (WA).</i>

Term	Definition
EP Regulations	<i>Environmental Protection Regulations 1987 (WA).</i>
kL	Kilolitres.
Licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
Licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
m AHD	Elevation in metres with respect to the Australian Height Datum.
mg/L	Milligrams per litre.
mS/cm	Microsiemens per centimetre.
NATA	National Association of Testing Authorities.
Premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map in Schedule 1 of this licence.
Prescribed premises	has the same meaning given to that term under the EP Act.
Quarterly	The four periods from 1 January to 31 March; 1 April to 30 June; 1 July to 30 September; 1 October to 31 December.
Spot sample	means a discrete sample representative of the time and place at which the sample is taken
Waste	has the same meaning given to that term under the EP Act.
WWTP	Wastewater Treatment Plant.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The premises boundary is shown in Figure 1.

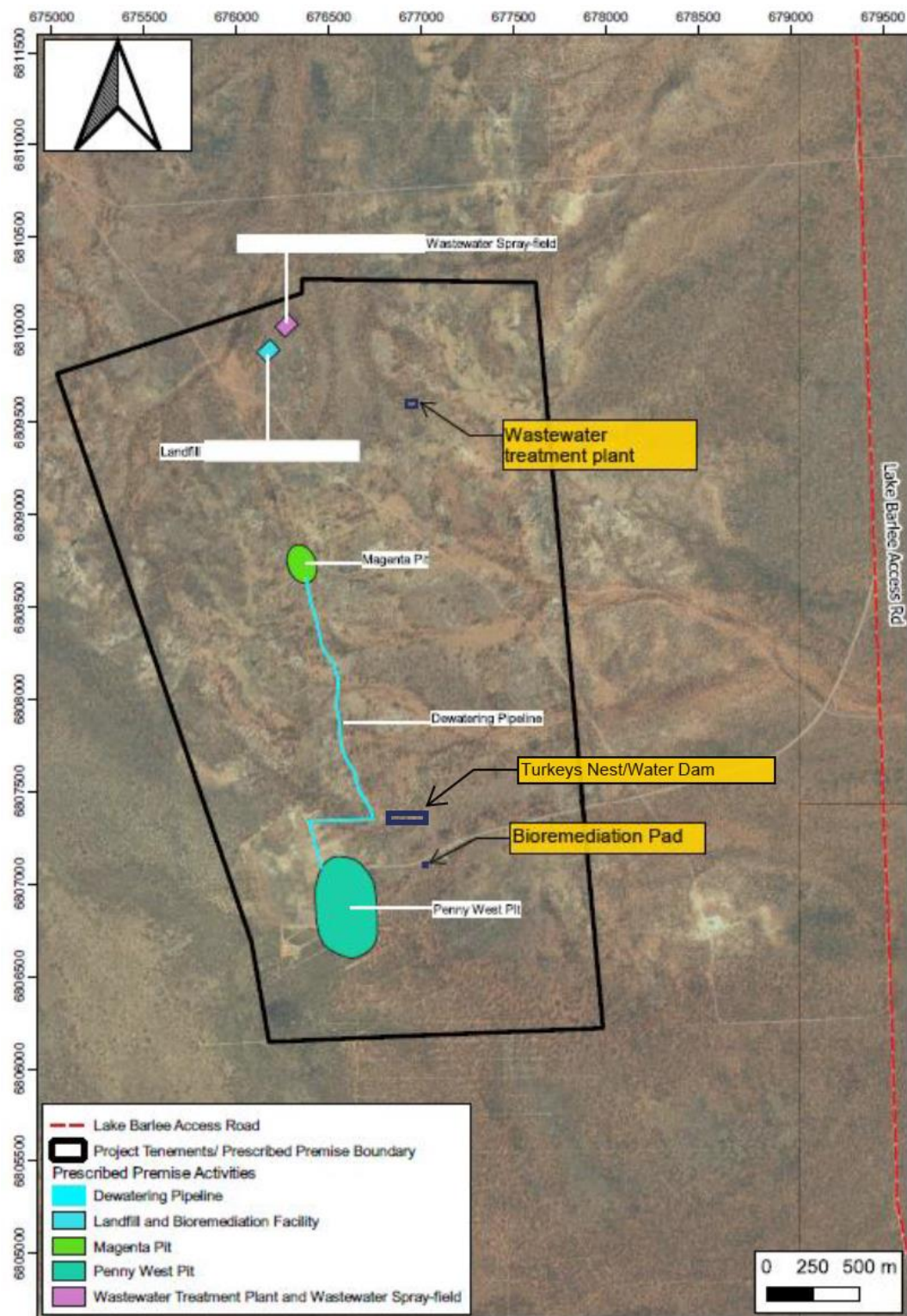


Figure 1: Prescribed premises boundary

WWTP, irrigation field and landfill trenches map

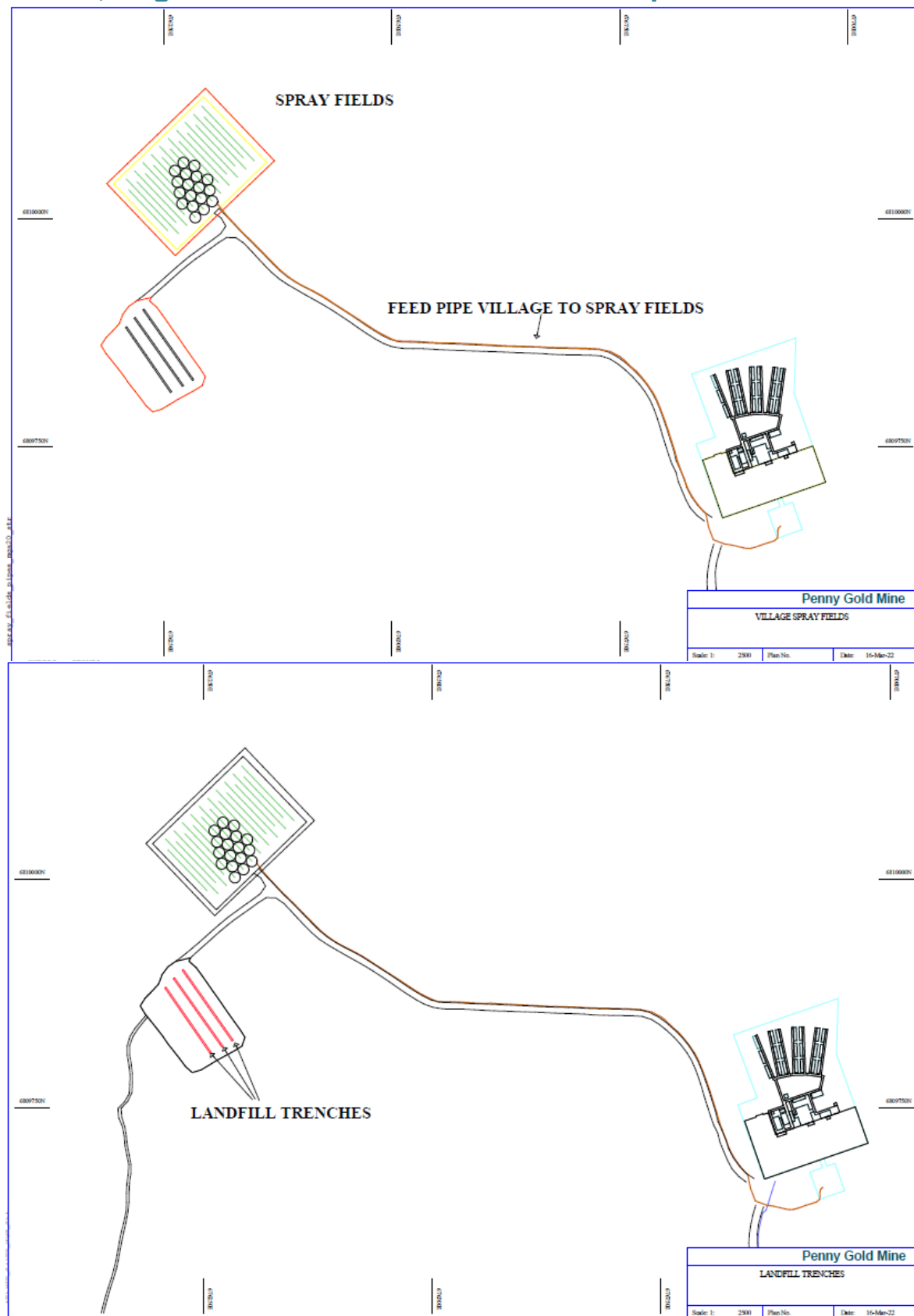


Figure 2: WWTP, irrigation field and landfill trenches

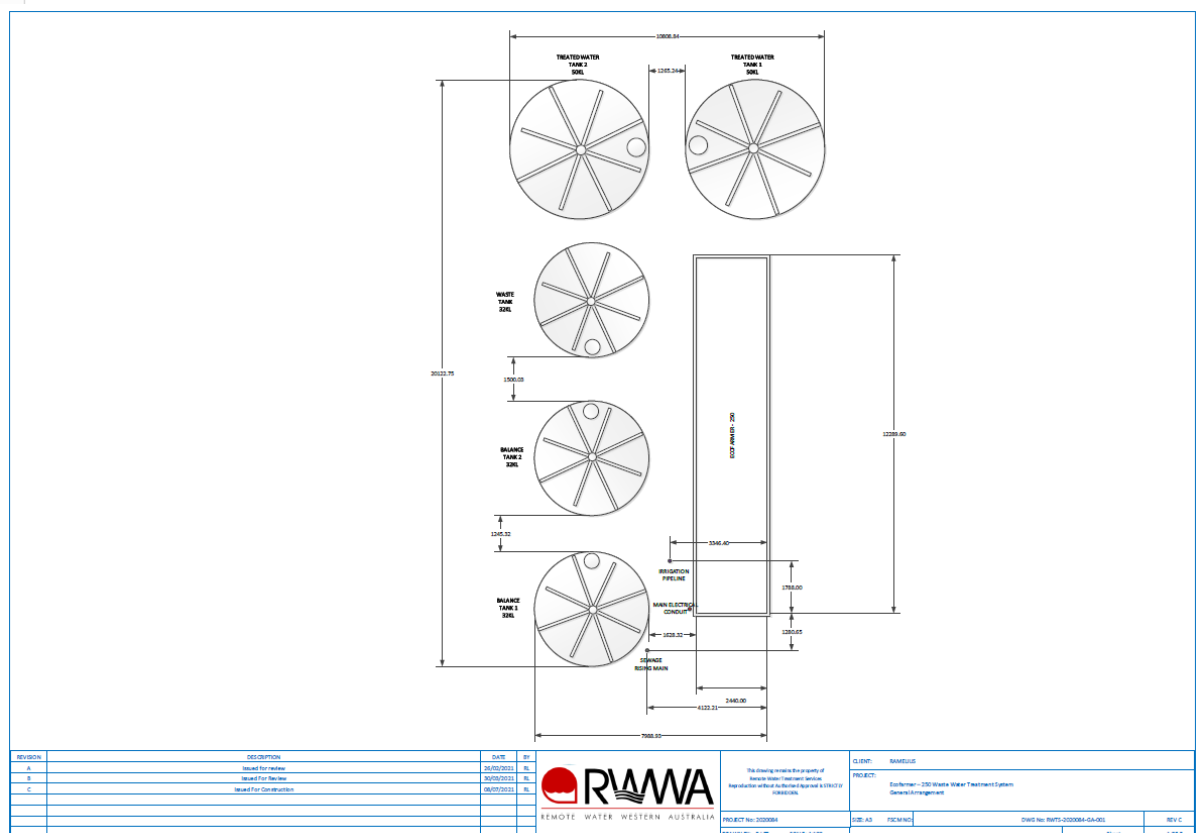
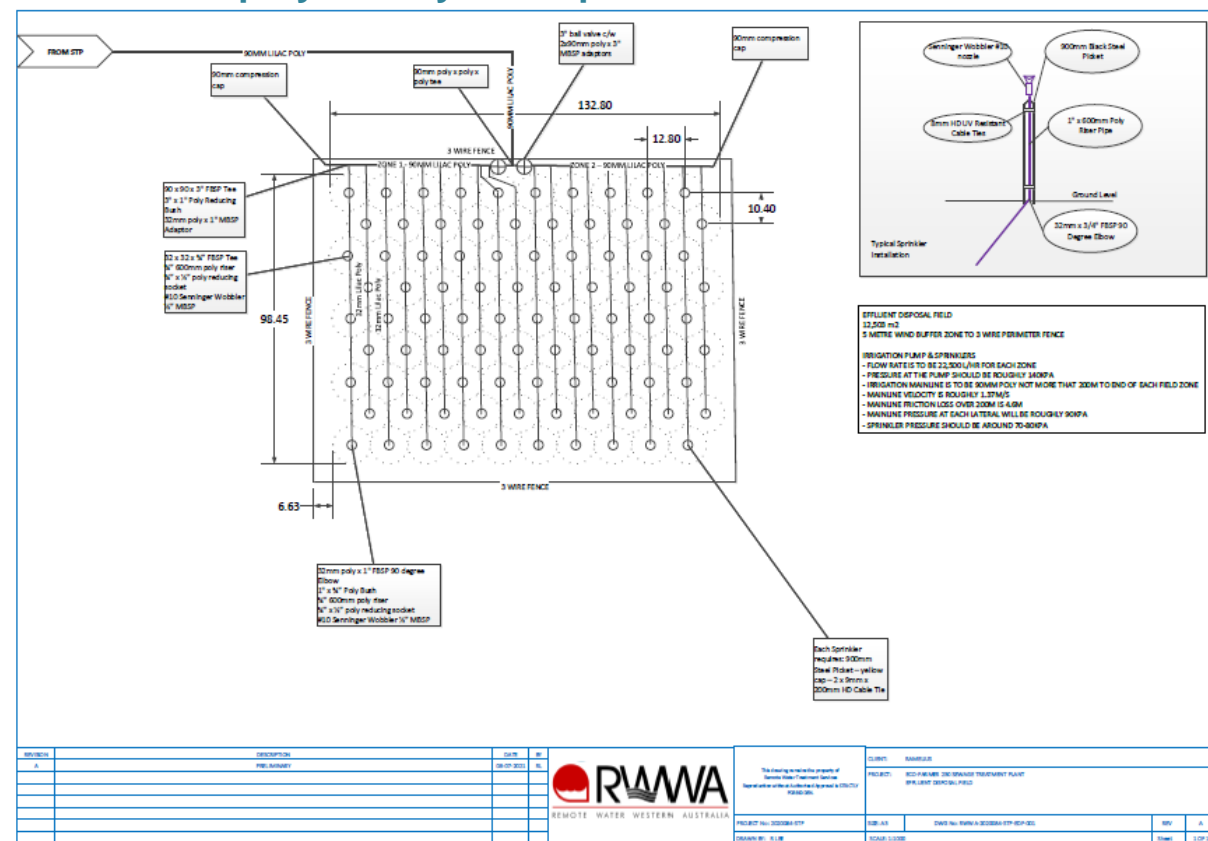
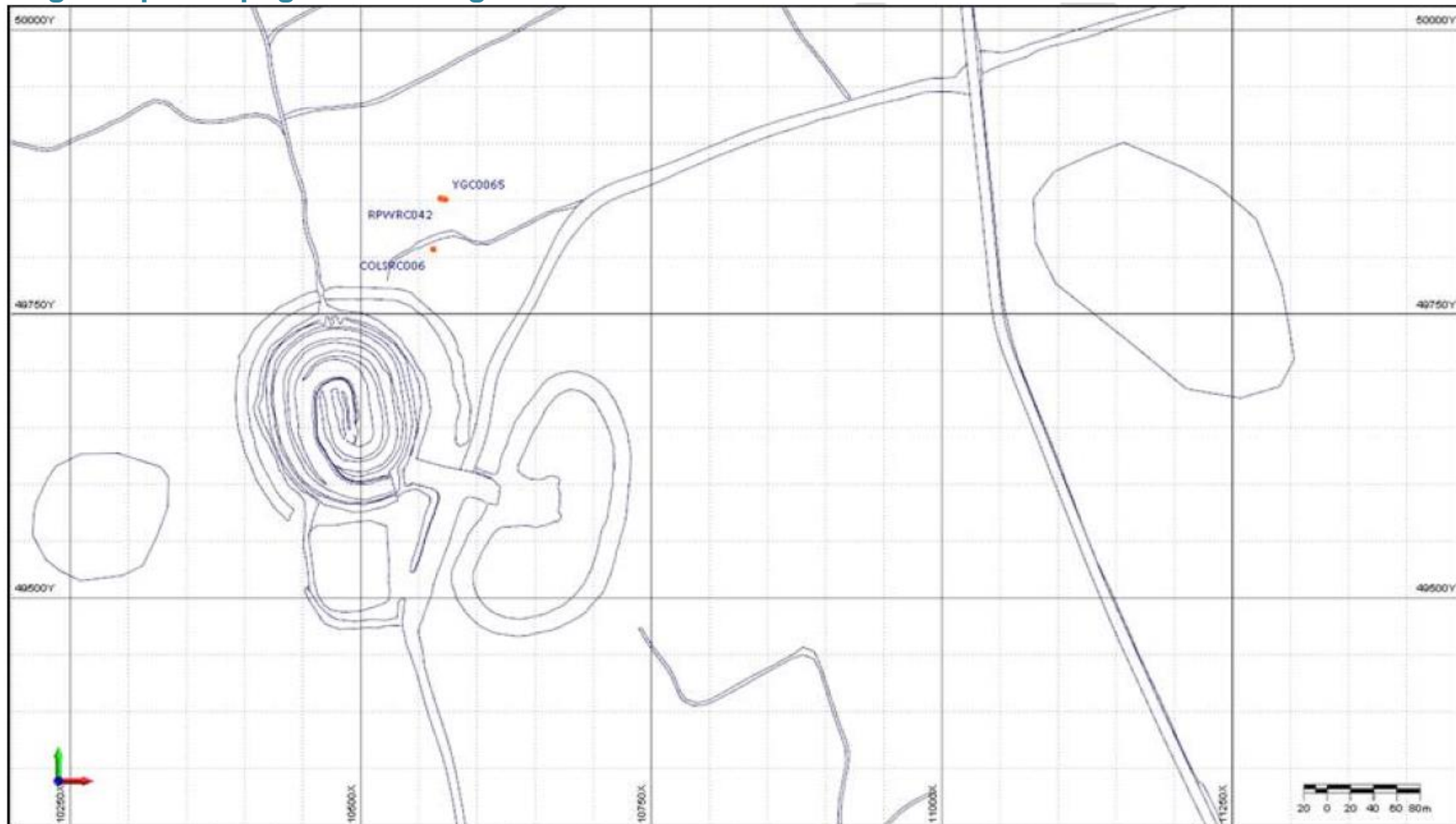


Figure 3: WWTP and sprayfield layout

Magenta pit seepage monitoring bore locations



HOLE_ID	LOCAL_EAST	LOCAL_NORTH	LOCAL_RL	EOH_DEPTH	LOCAL_AZI	DIP	DATE_DRILLED	WATER_LEVEL	DATE_MEASURED	COMMENTS
COLSRC006	10562.316	49806.84	1498.888	18	55.240839	-50.300216	19/12/2021	1490.7	19/06/2022	8.3m vertical below surface
RPWRC042	10568.56	49851.529	1498.49	41	318.261062	-66.386493	18/09/2020	1466.5	19/06/2022	32m vertical below surface

DWER note: YGC0065 is the twin hole of RPWRC042 and is not intended for monitoring use.

Figure 4: Groundwater monitoring bore locations