Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W3110/2025/1
Works approval holder	Gold Valley Wiluna West Pty Ltd
ACN	673 280 530
Registered business address	Odyssey Tax and Accounting UNIT 10 100 HAY STREET SUBIACO WA 6008
DWER file number	INS-0003112
Duration	10/02/2026 to 09/02/2031
Date of issue	10 February 2026
Premises details	Wiluna West Project Sandstone-Wiluna Road, Wiluna Legal description - Part of Mining Tenement L53/115, L53/146 and M53/1078 - I As defined by the coordinates in Schedule 2

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed design capacity**
Category 85: Sewage facility: premises — (a) on which sewage is treated (excluding septic tanks); or (b) from which treated sewage is discharged onto land or into waters.	50 m^3/day

This works approval is granted to the works approval holder, subject to the attached conditions, on 10 February 2026, by:

Abbie Crawford

Digitally signed by Abbie Crawford
Date: 2026.02.10 15:10:58 +08'00'

Abbie Crawford
MANAGER, WASTE INDUSTRIES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
10/02/2026	W3110/2025/1	Works approval granted (APP-0031200).

Interpretation

In this works approval:

(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 works approval:

  (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 works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

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

Construction phase

Infrastructure and equipment

1. The works approval holder must:

   (a) construct and/or install the infrastructure and/or equipment;

   (b) in accordance with the corresponding design and construction / installation requirements; and

   (c) at the corresponding infrastructure location;

   as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Waste Water Treatment Plant (WWTP)	The wastewater treatment system must be designed and constructed as to meet the following specifications: (a) Be able to receive and treat a wastewater inflow of up to 50 m^3/day; (b) Must be installed on a bunded, compacted earth hardstand; (c) Must comprise of the following equipment: - Inlet automatic screen - Balance tank - Balance pumps - Anaerobic-Anoxic-Oxic (A20) tank - Anaerobic pump - Anoxic tank - Anoxic pump - Aeration tank - Aerator - Clarifier tank - Filter feed pump - Filter backwash pump - Media filter (sand) - Return Activated Sludge(RAS)/Waste Activated Sludge (WAS) pump - Skimmer pump - Polyaluminium Chloride (PAC) dosing - Storage tank (irrigation tank) - Storge tank pump	As shown in Schedule 1 Figure 2, 3 and 4

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		- Recirculation pump - Chlorine dosing and Recirculation Pump - Chlorine analyser - Dissolved Oxygen (DO) analyser - Turbidity analyser - Sludge tank - pH analyser - Control panel - Valves (various) - Control room. (d) All tanks must be enclosed. (e) Flow meters are required to be installed on the inlet and outlet of the plant to record both volumes. (f) Must be equipped with float level switches and a Programmable Logic Controller (PLC) integrated with online plant monitoring. The PLC system must include alarms and an emergency isolator and be capable of detecting high water levels in tanks as well as changes in pressure and flow via pressure indicators and flow transmitter indicators. (g) Be able to treat sewage to the following output emission standards: (i) Biological Oxygen Demand (BOD) <20 mg/L (ii) Total Suspended Solid (TSS) <30 mg/L (iii) Total Nitrogen <30 mg/L (iv) Total Phosphorus <7.5 mg/L (v) E.coli <10 MPN or cfu/100mL (vi) Residual free chlorine 0.2 – 2.0 mg/L (vii) pH 6.5 – 8.5 pH units (viii) Turbidity <5 NTU	
2.	WWTP pipeline	Approximately 1.9 km pipeline(s) to be constructed from WWTP and RO plant to the existing JWD turkey nest.	As shown in Schedule 1 Figure 2
3.	Dust suppression areas	Approved dust suppression areas must be designed and constructed to meet the following specifications: (a) Minimum size of 20 ha (b) Warning signage installed on the roads advising the area is used for the disposal of treated wastewater	As shown in Schedule 1 Figure 5
4.	All other infrastructure	(a) All sewage storage and treatment tanks, vessels, transfer pipelines and conveyance infrastructure are to be constructed of impervious material and free of	As shown in Schedule 1

	Infrastructure	Design and construction / installation requirements	Infrastructure location
	and equipment	leaks and defects. (b) All sewage conveyance, storage and treatment infrastructure must be designed and constructed to ensure that stormwater does not enter the sewage treatment system and treated wastewater storage infrastructure. (c) Chemicals to be stored in accordance with Australian Standards AS1940-2004, AS3780-2008 and/or AS3833-2007 dependent on the type of chemical to be stored.	Figure 2

Compliance reporting

2. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:

   (a) undertake an audit of their compliance with the requirements of condition 1; and

   (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:

   (a) certification by a civil engineer that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

   (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

   (c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

4. The works approval holder may only commence environmental commissioning of an item of infrastructure listed in condition 5 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 of this works approval.

5. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 2 may only be carried out:

   (a) in accordance with the corresponding commissioning requirements; and

   (b) for the corresponding authorised commissioning duration.

Table 2: Environmental commissioning requirements

Infrastructure	Commissioning requirements	Authorised commissioning duration
Wastewater treatment plant	(a) WWTP to be free of leaks and/or defects; (b) Flow meters are maintained on the WWTP inlet and outlet; (c) Sludge is contained within sealed sludge tanks prior to removal by a licensed Controlled Waste Carrier for disposal to a premises authorised to accept the waste; and (d) All spills of wastewater or chemicals outside of a vessel / container are to be cleaned up immediately.	For a period not exceeding 90 calendar days in aggregate from the date the Environmental Compliance Report was submitted to the CEO.
Turkeys nest	(a) The turkey nest must be maintained with dimensions of approximately 31 m in width, 29 m in length, and 2 m in height;. (b) Maintain a minimum freeboard of 0.5 m at all times (c) HDPE liner maintained to achieve permeability of 1 x 10^{-9} m/sec; (d) Turkey nest and all associated pipelines to be free of leaks and/or defects; and (e) Not more than 10 m^3/day of RO reject brine supplied to the Turkey nest for blending with effluent prior to discharge to the dust suppression area.	
Pipeline from WWTP to Turkey nest	(f) All spills of wastewater outside of a vessel/container are to be cleaned up immediately.	
Dust suppression areas	(a) 20 ha dust suppression area; (b) daily application of effluent via water carting for dust suppression must not exceed: (i) 60 m^3 of blended effluent (a combination of RO concentrate and treated effluent) sourced from the turkey nest; or (ii) 50 m^3 of treated effluent drawn directly from the WWTP outlet. (c) Treated or blended effluent used for dust suppression must be used in such a manner that prevents: (iii) the pooling or ponding of water; (iv) erosion or scouring; and (v) waterlogging or runoff. (d) No treated or blended effluent is permitted to be discharged outside of the designated dust suppression area identified in Schedule 1 Figure 5: and; (e) No treated or blended effluent is to be discharged within 50 m of any watercourse.	

6. During environmental commissioning, the works approval holder must ensure that the emission(s) specified in Table 3, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 3: Authorised discharge points during commissioning

Emission	Discharge point	Discharge point location
Blended effluent from Turkey nest	Designated dust suppression area	Dust suppression area as shown in Schedule 1 Figure 5
Treated wastewater from WWTP outlet		

Monitoring during environmental commissioning

7. The works approval holder must monitor emissions during environmental commissioning in accordance with Table 4.

Table 4: Emissions and discharge monitoring during environmental commissioning

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
Approved dust suppression areas as depicted in Schedule 1 Figure 5	Reverse Osmosis outlet	Volume discharged to the Turkey Nest	Continuous	Cumulative daily	kL/day	N/A
	WWTP outlet	Volume discharged to Turkey Nest or direct for dust suppression	Continuous	Cumulative daily	kL/day	N/A
	Treated effluent from WWTP outlet	*E. coli*	Weekly	Spot sample	MPN or cfu/100mL	AS/NZS 5667.10
		Biological Oxygen Demand			mg/L	
		Total Suspended Solid				
		Total Nitrogen				
		Total Phosphorus				
		Residual free chlorine[1]	Continuous	N/A		
		pH[1]		N/A	N/A	
		Turbidity [1]		N/A	NTU	
	Blended effluent from Turkey nest	Volume discharged to approved dust suppression area	Continuous	Cumulative daily	kL/day	N/A
		pH[1]		N/A	N/A	AS/NZS 5667.10
		Electrical conductivity [1]		N/A	µS/cm	

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

8. The works approval holder must ensure that all monitoring equipment used to comply with condition 7 is calibrated in accordance with the manufacturer's specifications.

9. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for relevant parameters, unless otherwise specified in Table 4.

10. The works approval holder must record the results of all monitoring activity required by condition 7.

Environmental commissioning report

11. The works approval holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of environmental commissioning for each item of infrastructure specified in Table 2.

12. The works approval holder must ensure the Environmental Commissioning Report required by condition 11 of this works approval includes the following:

    (a) a summary of the environmental commissioning activities undertaken, including timeframes and amount of wastewater processed;

    (b) a summary of the treated and blended effluent monitoring results recorded in accordance with condition 7;

    (c) copies of laboratory reports for the monitoring results recorded in accordance with condition 10;

    (d) a summary of the environmental performance of each item of infrastructure or equipment as installed, which at minimum includes records detailing the:

        (i) a comparison of the treated and blended effluent monitoring results against discharge criteria specified in condition 1; and

        (ii) assessment of the approved dust suppression area performance against operational requirements in condition 5.

    (e) a review of the works approval holder's performance and compliance against the conditions of this works approval; and

    (f) where they have not been met, measures proposed to meet the manufacturer's design specifications and the conditions of this works approval, together with timeframes for implementing the proposed measures.

Time limited operations phase

Commencement and duration

13. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 15 where Environmental Commissioning Report for that item of infrastructure as required by condition 11 has been submitted by the works approval holder.

14. The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 15 (as applicable):

    (a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 13 (as applicable) for that item of infrastructure;

(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the Environmental Protection Act 1986, if one is granted before the end of the period specified in condition 14(a).

Time limited operations requirements and emission limits

15. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 5 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 5.

Table 5: Infrastructure and equipment requirements during time limited operations

	Site infrastructure and equipment	Operational requirement	Infrastructure location
1	Wastewater treatment plant	(a) WWTP to be free of leaks and/or defects; (b) Flow meters are maintained on the WWTP inlet and outlet; (c) Sludge is contained within sealed sludge tanks prior to removal by a licensed Controlled Waste Carrier for disposal to a premises authorised to accept the waste; and (d) All spills of wastewater or chemicals outside of a vessel / container are to be cleaned up immediately.	As shown in Schedule 1 Figure 2, 3 and 4
2	Turkeys nest	(a) The turkey nest must be maintained with dimensions of approximately 31 m in width, 29 m in length, and 2 m in height. (b) Maintain a minimum freeboard of 0.5 m at all times; (c) HDPE liner maintained to achieve permeability of 1 x 10^{-9} m/sec; (d) Turkey nest and all associated pipelines to be free of leaks and/or defects; and (e) Not more than 10 m^3/day of RO reject brine supplied to the Turkey nest for blending with effluent prior to discharge to the dust suppression area.	As shown in Schedule 1 Figure 2
	Pipeline from WWTP to Turkey nest	(a) All spills of wastewater outside of a vessel/container are to be cleaned up immediately.	As shown in Schedule 1 Figure 2
3	Dust suppression areas	(a) 20 ha dust suppression area; (b) daily application of effluent via water carting for dust suppression must not exceed: (i) 60 m^3 of blended effluent (a combination of RO concentrate and treated effluent) sourced from the turkey nest; or (ii) 50 m^3 of treated effluent drawn directly from the WWTP outlet. (c) Treated or blended effluent used for dust suppression must be used in such a manner that prevents:	As shown in Schedule 1 Figure 5

		(i) the pooling or ponding of water; (ii) erosion or scouring; and (iii) waterlogging or runoff. (d) No treated or blended effluent is permitted to be discharged outside of the designated dust suppression area identified in Schedule 1 Figure 5. (e) No treated or blended effluent is to be discharged within 50 m of any watercourse.	

16. During time limited operations, the works approval holder must ensure that the emission(s) specified in Table 6, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 6: Authorised discharge points

Emission	Discharge point	Discharge point location
Blended effluent from Turkey nest	Designated dust suppression area	Dust suppression area as shown in Schedule 1 Figure 5
Treated wastewater from WWTP outlet		

17. During time limited operations, the works approval holder must ensure that the emissions from the discharge point listed in Table 7 do not exceed the corresponding limit(s) when monitored in accordance with condition 18

Table 7: Emission and discharge limits during time limited operations

Discharge point	Parameter	limits
Outlet point from the WWTP to the dust suppression area and Turkey Nest	Biochemical oxygen demand	<20 mg/L
	Total suspended solid	<30 mg/L
	pH	6.5 to 8.5
	Total nitrogen	30 mg/L
	Total phosphorous	7.5 mg/L
	E. Coli	<10MPN or cfu/100mL
	Residual free chlorine	0.2 to 2.0 mg/L
	Turbidity	<5 NTU
Turkey nest	pH	6.5 to 8.5
	Electrical conductivity	<2000 µS/cm

Monitoring during time limited operations

18. The works approval holder must monitor emissions during time limited operations in accordance withTable 8.

Table 8: Emissions and discharge monitoring during time limited operations

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
Approved dust suppression areas as depicted in Schedule 1 Figure 5	Reverse Osmosis outlet	Volume discharged to the Turkey Nest	Continuous	Cumulative daily	kL/day	N/A
	WWTP outlet	Volume discharged to Turkey Nest or direct for dust suppression	Continuous	Cumulative daily	kL/day	N/A
	Treated effluent from WWTP outlet	*E. coli*	Weekly	Spot sample	MPN or cfu/100mL	AS/NZS 5667.10
		Biological Oxygen Demand			mg/L	
		Total Suspended Solid				
		Total Nitrogen				
		Total Phosphorus				
		Residual free chlorine[1]	Continuous	N/A		
		pH[1]		N/A	N/A	
		Turbidity [1]		N/A	NTU	
	Blended effluent from Turkey nest outlet	Volume discharged to approved dust suppression area	Continuous	Cumulative daily	kL/day	N/A
		pH[1]	Continuous	N/A	N/A	AS/NZS 5667.10
		Electrical conductivity [1]		N/A	µS/cm	

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

19. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for relevant parameters, unless otherwise specified in Table 8.

20. The works approval holder must record the results of all monitoring activity required by condition 18.

Compliance reporting

21. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.

22. The works approval holder must ensure the report required by condition 21 includes the following:

    (a) a summary of the time limited operations, including timeframes and amount of wastewater processed;

    (b) a summary of monitoring parameter results obtained during time limited operations under condition 18.

    (c) copies of laboratory reports for treated and blended effluent monitoring results recorded in accordance with condition 20

    (d) a summary of the environmental performance of each item of infrastructure or equipment as installed, which at minimum includes records detailing the:

        (i) a comparison of the treated and blended effluent monitoring results against discharge limits specified in condition 17; and

        (ii) assessment of the approved dust suppression area performance against operational requirements in condition 15.

    (e) a review of performance and compliance against the conditions of the works approval and the Environmental Commissioning Report; and

    (f) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

23. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.

24. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

    (a) the works conducted in accordance with condition 1;

    (b) any maintenance of infrastructure that is performed in the course of complying with conditions 5 and 15;

    (c) monitoring programmes undertaken in accordance with conditions 7 and 18; and

    (d) complaints received under condition 23.

25. The books specified under condition 24 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 works approval holder for the duration of the works approval; and

(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 9 have the meanings defined.

Table 9: Definitions

Term	Definition
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
AS 1940-2004	means Australian Standard AS 1940-2004 *The storage and handling of flammable and combustible liquids.*
AS3780-2008	means Australian Standard AS 3780-2008 *The storage and handling of corrosive substances*
AS3833-2007	means Australian Standard AS3833-2007 *The storage and handling of mixed classes of dangerous goods, in packages and intermediate bulk containers*
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters.*
Blended effluent	Means effluent applied to the dust suppression area consisting of treated effluent from the wastewater treatment plant combined with up to 10 m³/day of RO reject brine
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
cfu/100 mL	means colony forming units per 100 millilitres.
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V Division 3 of the EP Act.
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.
environmental commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other environmental factors.

Term	Definition
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
MPN	means most probable number
NTU	means nephelometric turbidity unit
premises	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

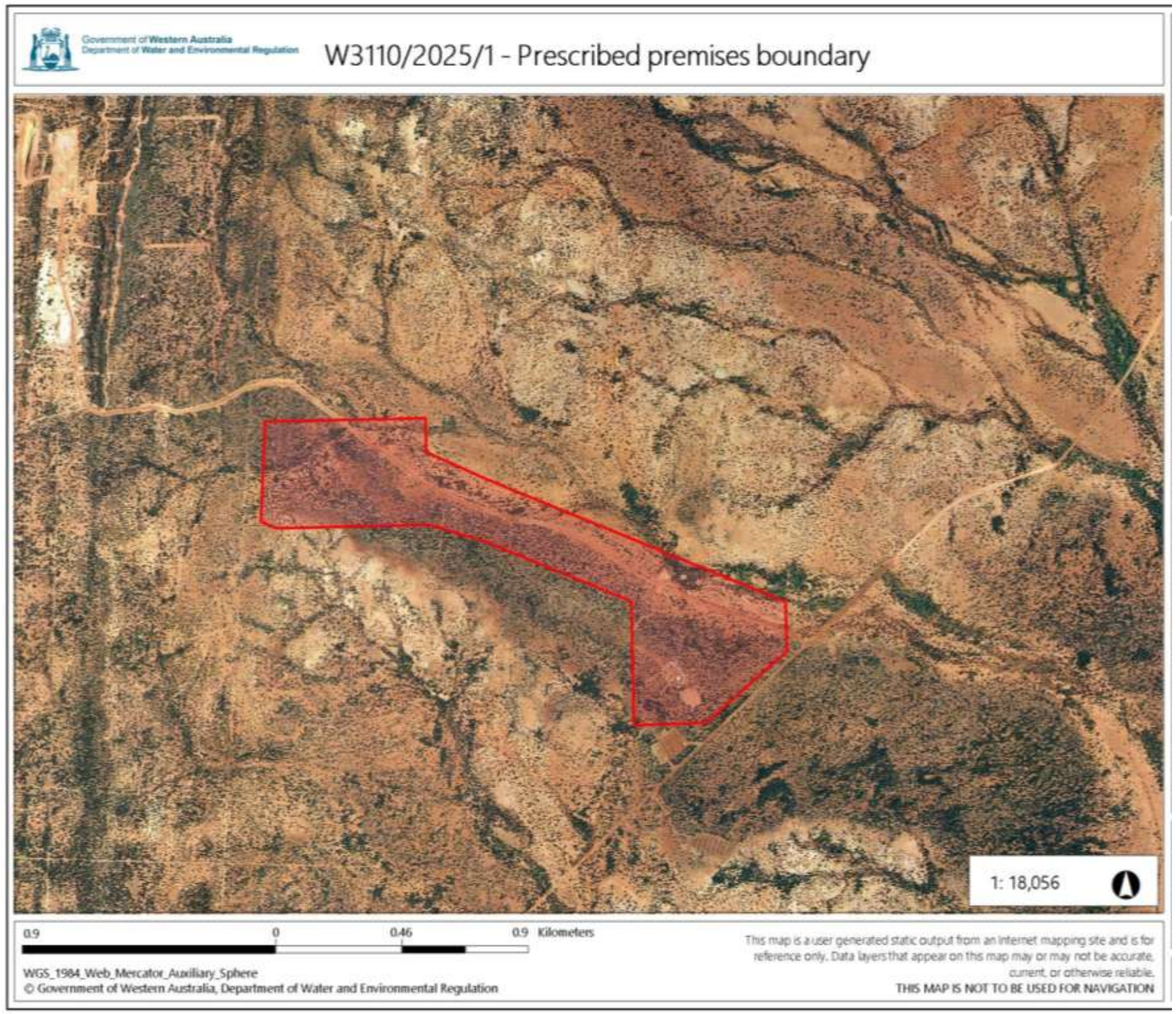

Figure 1: Map of the boundary of the prescribed premises

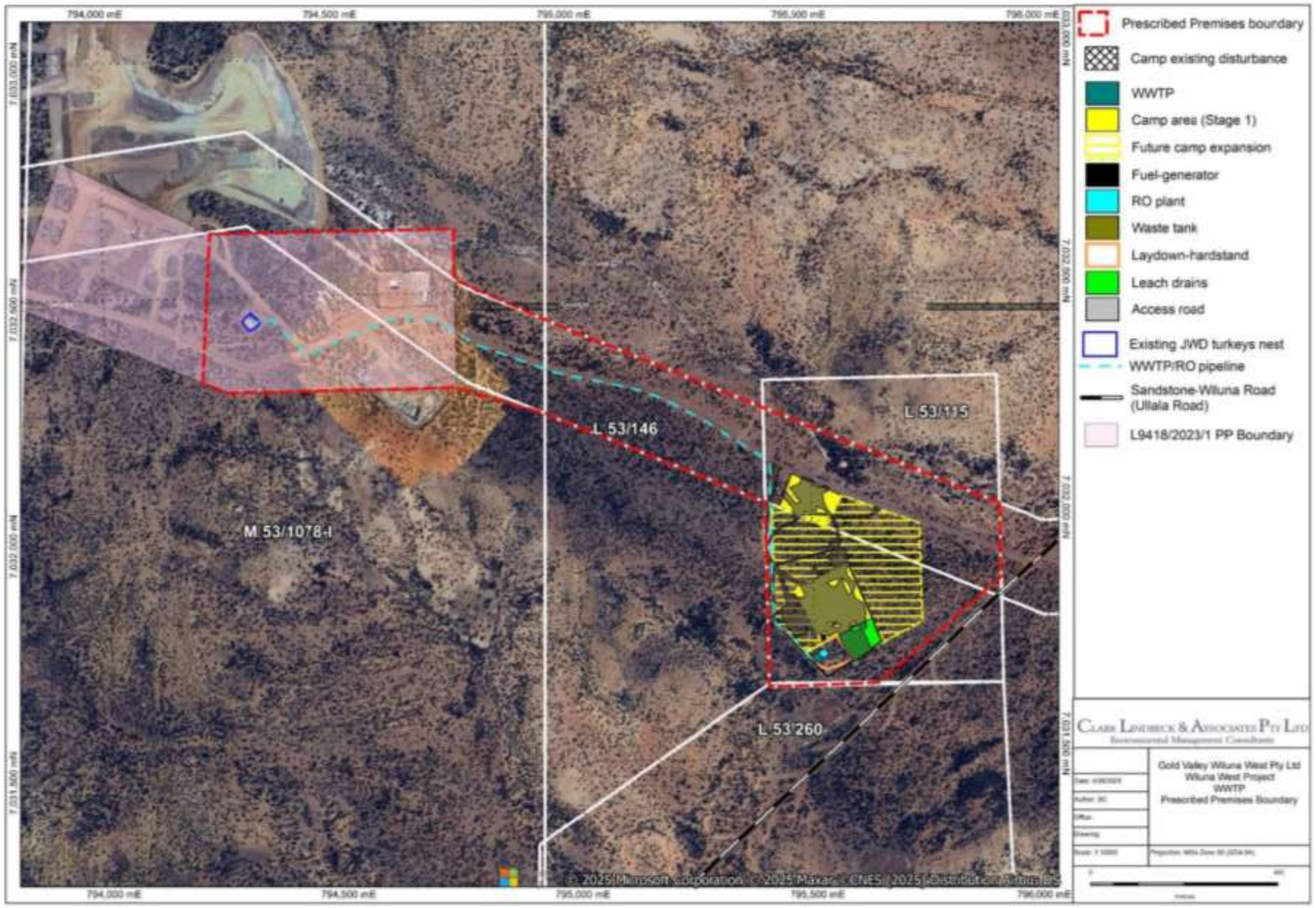

Figure 2: Proposed layout with prescribed premises boundary

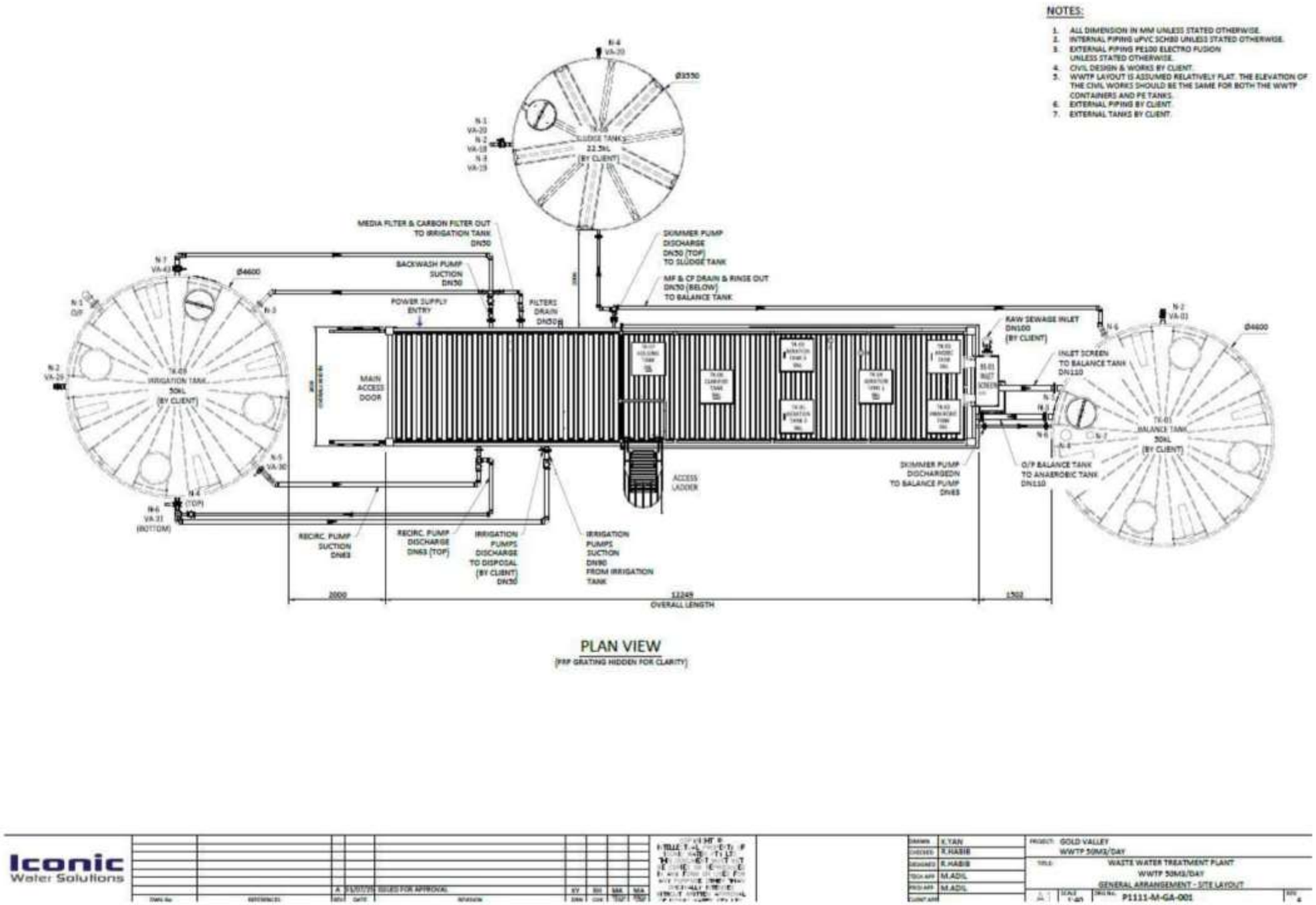

Figure 3: General arrangement of the WWTP

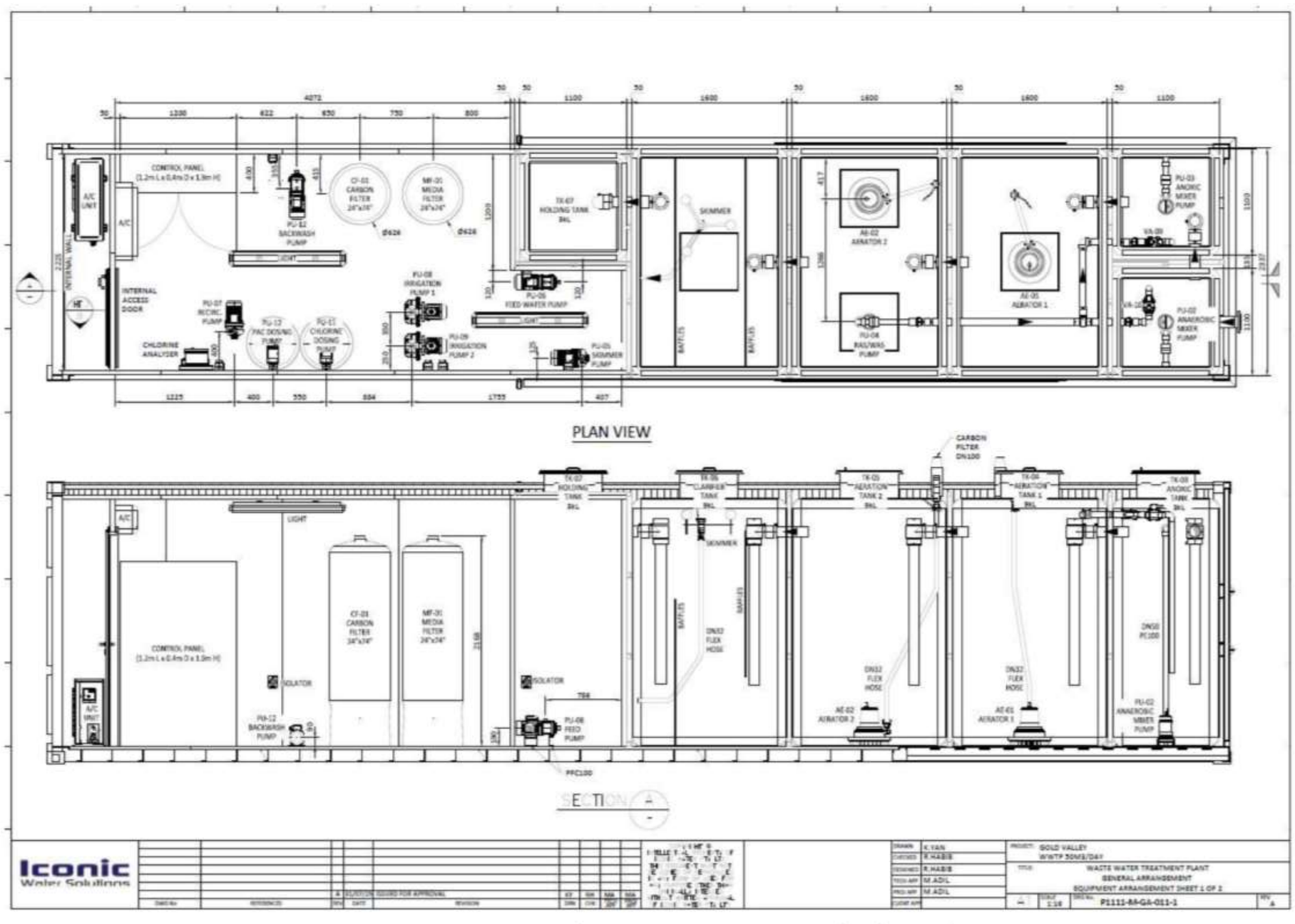

Figure 4: WWTP equipment layout within the container

Figure 5: Approved dust suppression area