Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence number	L9320/2022/1
Licence holder	Department of Communities Water Corporation
Registered business address	Department of Communities 5 Newman Court Locked Bag 5000 FREMANTLE WA 6959 Water Corporation 629 Newcastle Street LEEDERVILLE WA 6007
DWER file number	DER2021/000743
Duration	09/05/2022 to 09/05/2052
Date of issue	09/05/2022
Premises details	Mowanjum Wastewater Treatment Plant Legal description - Lot 501 on Deposited Plan 049870 / Reserve 1326 Certificate of Title Volume LR3156 Folio 329 Lot 85 on Deposited Plan 213679 Certificate of Title Volume 1445 Folio 632ot 501 on As defined by the coordinates in Schedule 2

Prescribed premises category description **(Schedule 1, *Environmental Protection Regulations 1987*)**	**Assessed production / design capacity**
Category 54: 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	149m^3/day

This licence is granted to the licence holder, subject to the attached conditions, on 09 May 2022, by:

Steve Checker
Digitally signed by Steve Checker
Date: 2022.05.09 21:37:05 +08'00'

Stephen Checker
MANAGER WASTE INDUSTRIES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Reference number	Summary of changes
4/06/2018	A1621698	New Works Approval
09/05/2022	DWERDT564424	New Licence to upgrade and operate the Wastewater Treatment Plant

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:

Construction phase

Infrastructure and equipment

1. The licence 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.	Sewage treatment system	The sewage treatment system must be designed and constructed to meet the following specifications: (a) be able to receive and treat a sewage inflow of up to 149m^3/day; (b) Able to treat sewage to the following output emission standards: (i) Biochemical oxygen demand <20 mg/L; (ii) Total suspended solids <150 mg/L; (iii) Total nitrogen <20 mg/L; (iv) Total phosphorus <6 mg/L; (v) E. coli <4500 cfu/100mL; and (vi) pH 6.8 to 8.5; (c) allow sufficient capacity with a 500mm top of bank freeboard to capture a 1 in 10 year 72 hour rainfall event; (d) All sewage conveyance, storage and treatment infrastructure must be designed and constructed to ensure that stormwater runoff does not enter the sewage treatment system and sewage and treated wastewater storage infrastructure; and (e) direct all treated wastewater to evaporation / infiltration pond 1, 2 and/or 3.	As shown in Schedule 1 Premises layout
2.	Primary pond 1	• comprise the following dimensions: i. depth of 1.8m; ii. width of 30m; and iii. length of 57m. • provide a 500mm freeboard; • must be 4mm BGM lined with a permeability of less than 1x10^{-9} m/s or equivalent;	As shown in Schedule 1 Premises layout

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		• the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations; • the liner must be free of tears or holes prior to installation; and • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.	
3.	Primary pond 2	• comprise the following dimensions: iv. depth of 1.5m; v. width of 40m; and vi. length of 45m. • provide a 500mm freeboard; • must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent; • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations; • the liner must be free of tears or holes prior to installation; and adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.	As shown in Schedule 1 Premises layout
4.	Secondary pond 1	• comprise the following dimensions: vii. depth of 1.5m; viii. width of 23m; and ix. length of 38m. • provide a 500mm freeboard; • must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent; • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations; • the liner must be free of tears or holes prior to installation; and • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding	As shown in Schedule 1 Premises layout

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		or mechanical joining in accordance with manufacturer's specifications.	
5.	Secondary pond 2	• comprise the following dimensions: x. depth of 1.3m; xi. width of 35m; and xii. length of 52m. • provide a 500mm freeboard; • provide an internal baffle; • must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent; • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations; • the liner must be free of tears or holes prior to installation; and • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.	As shown in Schedule 1 Premises layout
6.	Evaporation / infiltration pond 1	• comprise the following dimensions: xiii. depth of 1.0m; xiv. width of 52m; and xv. length of 70m. • provide a 500mm freeboard; • must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent on the embankments only; • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations; • the liner must be free of tears or holes prior to installation; and • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.	As shown in Schedule 1 Premises layout
7.	Evaporation / infiltration pond 2	• comprise the following dimensions: xvi. depth of 1.0m; xvii. width of 53m; and	As shown in Schedule 1 Premises layout

	Infrastructure	Design and construction / installation requirements	Infrastructure location

		xviii. length of 110m.
		• provide a 500mm freeboard;
		• must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent on the embankments only;
		  • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations;
		  • the liner must be free of tears or holes prior to installation; and
		  • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.	

8.	Evaporation / infiltration pond 3	• comprise the following dimensions:
		  xix. depth of 1.0m;
		  xx. width of 46m; and
		  xxi. length of 61m.
		• provide a 500mm freeboard;
		• must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent on the embankments only;
		  • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations;
		  • the liner must be free of tears or holes prior to installation; and
		  • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.
			As shown in Schedule 1 Premises layout

9.	Septage drying area	• be fully bunded to retain liquid waste within the area; • must be 4mm BGM lined with a permeability of less than $1x10^{-9}$ m/s or equivalent; • the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations;	As shown in Schedule 1 Premises layout

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		• the liner must be free of tears or holes prior to installation; and • adjacent sheets of liner are to overlap by a minimum of 100mm, prior to heat welding or mechanical joining in accordance with manufacturer's specifications.	

Compliance reporting

2. The licence holder must within 30 days of each item of infrastructure required by condition 1 being constructed:

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

(b) prepare and submit to the CEO an audit report on that compliance.

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

(a) certification by a suitably qualified 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.

Construction of groundwater monitoring wells

4. The licence holder must design, construct, and install groundwater monitoring wells in accordance with the requirements specified in Table 2.

Table 2: Infrastructure requirements – groundwater monitoring wells

Infrastructure	Design, construction, and installation requirements	Monitoring well location(s)	Timeframe
Groundwater monitoring well(s): MB1 MB2 MB3 MB4	<u>Well design and construction:</u> Designed and constructed in accordance with *ASTM D5092/D5092M-16: Standard practice for design and installation of groundwater monitoring bores*. Well screens must target the part, or parts, of the aquifer most likely to be affected by contamination[1]. Where temporary/seasonal perched features are present, wells must be nested, and the perched features individually screened.	As depicted in Schedule 1: Map of groundwater monitoring bore locations	Must be constructed, developed (purged), and determined to be operational prior to the commencement of environmental commissioning activities under condition 6.
	<u>Logging of borehole:</u> Soil samples must be collected and logged during the installation of the monitoring wells. A record of the geology encountered during drilling must be described and classified in accordance		

Infrastructure	Design, construction, and installation requirements	Monitoring well location(s)	Timeframe
	with the Australian Standard Geotechnical Site Investigations AS1726. Any observations of staining / odours or other indications of contamination must be included in the bore log.		
	Well construction log: Well construction details must be documented within a well construction log to demonstrate compliance with *ASTM D5092/D5092M-16*. The construction logs shall include elevations of the top of casing position to be used as the reference point for water-level measurements, and the elevations of the ground surface protective installations.		
	Well development: All installed monitoring wells must be developed after drilling to remove fine sand, silt, clay and any drilling mud residues from around the well screen to ensure the hydraulic functioning of the well. A detailed record should be kept of well development activities and included in the well construction log.		
	Installation survey: the vertical (top of casing) and horizontal position of each monitoring well must be surveyed and subsequently mapped by a suitably qualified surveyor.		
	Well network map: a well location map (using aerial image overlay) must be prepared and include the location of all monitoring wells in the monitoring network and their respective identification numbers.		

Note 1: refer to Section 8 of Schedule B2 of the *Assessment of Site Contamination NEPM* for guidance on well screen depth and length.

5. The licence holder must, within 90 calendar days of the monitoring wells being constructed, submit to the CEO a well construction report evidencing compliance with the requirements of condition 4.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

6. The licence holder may only commence environmental commissioning of the infrastructure listed in condition 1 once the Environmental Compliance Report has been submitted for that infrastructure in accordance with condition 3 of this licence.

7. Any environmental commissioning activities undertaken for infrastructure specified in Table 3 may only be carried out:

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

(b) for the corresponding authorised commissioning duration.

Table 3: Environmental commissioning requirements

Infrastructure	Commissioning requirements	Environmental commissioning duration
WWTP	(a) testing of pipework, liners etc not involving receipt of sewage into the WWTP and/or a discharge to the environment is not considered environmental commissioning and may be undertaken as part of construction works (b) the licence holder must notify the CEO of the commencement and cessation dates of commissioning within seven days after those dates	For a period not exceeding 180 calendar days in aggregate.

8. During environmental commissioning, the licence holder must ensure that the emission(s) specified in Table 4, are discharged only from the corresponding discharge points and only at the corresponding discharge point location.

Table 4: Authorised discharge points during commissioning

Emission	Discharge point	Discharge point location
Treated wastewater	Secondary pond 2 outlet flow (E1)	As shown in Schedule 1 Premises layout

Monitoring during environmental commissioning

Emissions to Land

9. The licence holder must monitor emissions during environmental commissioning in accordance with Table 5.

Table 5: Emissions monitoring during environmental commissioning

Discharge point	Monitoring location	Parameter	Frequency	Averaging Period	Unit
Secondary pond 2 outlet flow (E1)	WWTP outlet	*E. coli*	Monthly	Spot sample	cfu / 100 mL
		Biochemical Oxygen Demand			mg/L
		Total suspended solids			
		Total nitrogen			
		Total phosphorus			

		pH[1]	Monthly	n/a	pH units

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

Groundwater monitoring

10. The licence holder must monitor groundwater during environmental commissioning in accordance with Table 6.

Table 6: Groundwater monitoring

Monitoring Point Reference	Parameter	Units	Frequency	Method
MB1 MB2 MB3 MB4	Standing water level	m(AHD) and m(BGL)	Monthly	Spot sample, in accordance with AS/NZS 5667.11.
	Total Phosphorus	mg/L		
	Total Nitrogen			
	Biochemical Oxygen Demand			
	Total Suspended Solids			
	Nitrate+Nitrite nitrogen			
	Ammonium (NH_4-N)			
	Metals (aluminium, arsenic, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, potassium and zinc)			
	Electrical conductivity[2]	µS / cm		
	pH[1]	pH units		
	E. coli[3]	Cfu/100mL		

Note 1: In-field non-NATA accredited analysis permitted.
Note 2: In-field non-NATA accredited and NATA accredited analysis required.
Note 3: Actual units are to be reported except where the result is greater than the highest detectable level of 24,000 cfu/100mL. In this case the reporting of the highest detectable level is permitted.

11. The licence holder must ensure that during environmental commissioning:

(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;

(b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;

(c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11;

(d) all microbiological samples are collected and preserved in accordance with AS/NZS 2031; and

(e) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured, unless indicated otherwise in the relevant table.

Environmental Commissioning Report

12. The licence holder must submit to the CEO an Environmental Commissioning Report within 30 calendar days of the completion date of environmental commissioning for the infrastructure specified in Table 3.

13. The licence holder must ensure the Environmental Commissioning Report required by condition 12 of this licence includes the following:

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

(b) a summary of treated effluent monitoring and groundwater results recorded in accordance with condition 9 and 10;

(c) copies of laboratory reports for treated effluent and groundwater monitoring results recorded in accordance with condition 9 and 10;

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

(i) a comparison of the treated effluent monitoring results against the output emission standards specified in condition 1;

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

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

Operation

14. The licence holder must not operate the wastewater treatment plant upgrade works (as specified in Table 3), other than for the purposes of environmental commissioning, until an Environmental Commissioning Report has been submitted in accordance with condition 12.

15. The licence holder must ensure that the site infrastructure and equipment listed in Table 7 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 7.

Table 7: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Sewage treatment system	Operated to receive and treat a sewage inflow of up to 149 m^3/day	As shown in Schedule 1 Premises layout
Inlet works	Solids stored in a discharge chamber which is surrounded by a bunded hardstand area which returns sludge leachate to the start of the treatment process	As shown in Schedule 1 Premises layout
Primary pond 1	The integrity of the liner is maintained to achieve hydraulic permeability of ≤1 x 10^{-9} m/sec.	As shown in Schedule 1 Premises layout
Primary pond 2	The integrity of the liner is maintained to achieve hydraulic permeability of ≤1 x 10^{-9} m/sec.	As shown in Schedule 1 Premises layout
Evaporation / infiltration pond 1	The integrity of the embankment liner is maintained to achieve hydraulic permeability of ≤1 x 10^{-9} m/sec.	As shown in Schedule 1 Premises layout
Evaporation / infiltration pond 2	The integrity of the embankment liner is maintained to achieve hydraulic permeability of ≤1 x 10^{-9} m/sec.	As shown in Schedule 1 Premises layout
Evaporation / infiltration pond 3	The integrity of the embankment liner is maintained to achieve hydraulic permeability of ≤1 x 10^{-9} m/sec.	As shown in Schedule 1 Premises layout
Sludge dry area	A bunded lined area capable of preventing surface run-off of leachate and sludge and which returns sludge leachate to the same pond of origin.	As shown in Schedule 1 Premises layout
Monitoring bores MB1, MB2, MB3 and MB4.	Ensure representative groundwater monitoring occurs as specified by frequency.	As shown in Schedule 1 Groundwater monitoring bore location

16. The licence holder must as soon as practicable recover, or remove and dispose of, spills of environmentally hazardous materials including sewage, fuel, oil, or other hydrocarbons, whether inside or outside an engineered containment system as soon as practicable upon identification of a spill.

17. The licence holder must ensure that the waste accepted onto the Premises is only subjected to the processes set out in Table 8 and in accordance with any process requirements described in Table 8.

Table 8: Waste processing

Waste type	Process	Process requirements
Sewage	Physical and biological treatment	• Treatment of sewage shall be targeted at or below the treatment capacity 149 m^3 / day.
Sewage sludge	Storage and processing	• Sludge leachate to be returned to the pond of origin; and • Removal of sludge to a licensed landfill for

Waste type	Process	Process requirements
		final disposal.

18. The licence holder shall manage all wastewater treatment ponds such that:

(a) overtopping of the ponds does not occur except as a result of an extreme rainfall event;
(b) a freeboard of at least 500 mm is maintained;
(c) the integrity of the containment infrastructure is maintained;
(d) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter; and
(e) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments in wastewater treatment ponds.

19. The licence holder shall:

(a) implement security measures at the site to prevent as far as is practical unauthorised access to the site;
(b) undertake regular inspections of all security measures and repair damage as soon as practicable; and
(c) ensure the entrance gates are closed and locked when the site is closed.

Emissions and discharges

Emissions to Land

20. The licence holder must ensure that the emissions specified in Table 9, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 9: Authorised discharge points

Emission	Discharge point	Discharge point location
Treated wastewater	Secondary pond 2 outlet flow (E1)	As shown in Schedule 1 Premises layout

Monitoring

Emissions to Land

21. The licence holder must monitor emissions during operation in accordance with Table 10.

Table 10: Emissions monitoring during operation

Discharge point	Monitoring location	Parameter	Frequency	Averaging Period	Unit
Secondary pond 2 outlet flow (E1)	WWTP outlet	*E. coli*	Monthly	Spot sample	cfu / 100mL
		Biochemical Oxygen Demand			mg/L

		Total suspended solids			
		Total nitrogen			
		Total phosphorus			
		pH[1]	Monthly	n/a	pH units

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

Groundwater monitoring

22. The licence holder must monitor groundwater during operation in accordance with Table 11.

Table 11: Groundwater monitoring

Monitoring Point Reference	Parameter	Units	Frequency	Method
MB1 MB2 MB3 MB4	Standing water level	m(AHD) and m(BGL)	Monthly	Spot sample, in accordance with AS/NZS 5667.11.
	Total Phosphorus	mg/L		
	Total Nitrogen			
	Biochemical Oxygen Demand			
	Total Suspended Solids			
	Nitrate+Nitrite nitrogen			
	Ammonium (NH_4-N)			
	Metals (aluminium, arsenic, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, potassium and zinc)			
	Electrical conductivity[2]	µS / cm		
	pH[1]	pH units		
	E. coli[3]	Cfu/100mL		

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

Note 2: In-field non-NATA accredited and NATA accredited analysis required.
Note 3: Actual units are to be reported except where the result is greater than the highest detectable level of 24,000 cfu/100mL. In this case the reporting of the highest detectable level is permitted.

23. The licence holder must ensure that:

(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;

(b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;

(c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11;

(d) all microbiological samples are collected and preserved in accordance with AS/NZS 2031; and

(e) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured, unless indicated otherwise in the relevant table.

24. The licence holder must ensure that monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months.

Records and reporting

25. 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.

26. 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 no later than 93 calendar days after the end of the annual period an Annual Audit Compliance Report for the preceding annual period in the approved form.

27. The licence holder must submit to the CEO by no later than 93 calendar days after the end of the annual period and then biennially thereafter, an Environmental Report for the previous two annual periods (or part thereof) for the conditions listed in Table 12, and which provides information in accordance with the corresponding requirement set out in Table 12.

Table 12: **Annual Environmental Report**

Condition	Requirement
21	(a) A tabulated data summary of monitoring results. (b) An interpretation of monitoring data results including comparison to historical trends.
22	(a) A tabulated data summary of monitoring results. (b) An interpretation of monitoring data results including comparison to historical trends.

28. 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) the works conducted in accordance with condition 1 and 4 of this licence;

(c) any maintenance of infrastructure that is performed in the course of complying with condition 15 of this licence;

(d) monitoring programmes undertaken in accordance with conditions 21 and 22 of this licence; and

(e) complaints received under condition 26 of this licence.

29. The books specified under condition 28 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.

Definitions

In this licence, the terms in Table3 have the meanings defined.

Table 13: Definitions

Term	Definition
AS 1726	means the Standard Australia AS 1726:2017 *Geotechnical site investigations*
AS/NZS 1547/2012	means the Australian Standard AS/NZS 1547.2012 *On-site domestic wastewater management*
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	means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of groundwaters*
ASTM D5092/D5092M-16	means the ASTM International D5092/D5092M-16: Standard practice for design and installation of groundwater monitoring bores
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 July until 30 June of the immediately following year.
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
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.

Term	Definition
Environmental commissioning	means stabilisation and optimisation of the WWTP process following input of raw materials under operating conditions (including emissions) to confirm that emissions meet predicted levels prior to ongoing operation.
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.
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)
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.
monthly period	means a one-month period commencing from day 1 of a month until the last day of that same month.
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 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
waste	has the same meaning given to that term under the EP Act.

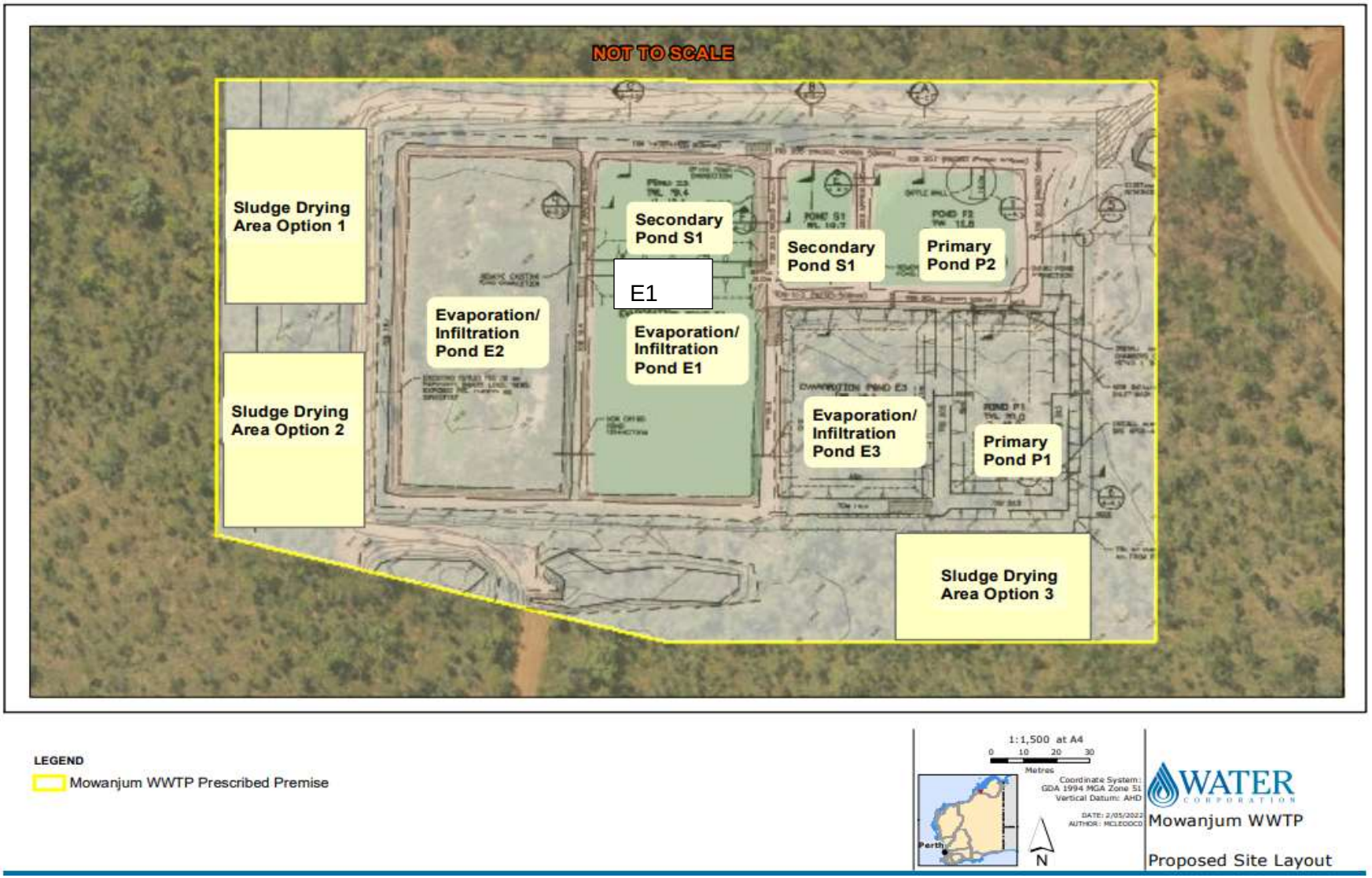
END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map in Yellow

Premises layout



Groundwater monitoring bore locations

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in 14.

Table 14: Premises boundary coordinates (GDA94)

Latitude	Longitude	Point
-17.35172	123.69639	A
-17.35006	123.69639	B
-17.35006	123.696399	C
-17.351408	123.696399	D
-17.35172	123.694979	E