



<b>Licence number</b>	L6870/1993/13
<b>Licence holder</b>	Shire of East Pilbara
<b>Registered business address</b>	Shire of East Pilbara Administration Corner of Kalgan and Newman Drive - PMB 22 NEWMAN WA 6753
<b>DWER file number</b>	DWER2014/001424-1~2
<b>Duration</b>	30/07/2023 to 29/07/2043
<b>Date of issue</b>	28/07/2023
<b>Premises details</b>	Newman Wastewater Treatment Plant Great Northern Highway NEWMAN WA 6873 Legal description - Reserve 45776, Lot 568 on Plan 400579 As depicted by the coordinates in Schedule 2

<b>Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)</b>	<b>Assessed design capacity</b>
Category 54: Sewage facility – Premises on which sewage is treated or from which treated sewage is discharged onto land or into waters.	2000m <sup>3</sup> per day

This licence is granted to the licence holder, subject to the attached conditions, on 28 July 2023, by:

Neville Welsh  
SENIOR INDUSTRY LICENSING OFFICER,  
REGULATORY SERVICES  
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

## Licence and works approval history

Date	Reference number	Summary of changes
21/072011	L6870/1993/12	Licence Re-issue and expiry extended by five years
29/04/2016	L6870/1993/12	Amendment to Licence REFIRE - Extend expiry date from 29 July 2016 to 29 July 2023. No update to Licence format occurred.
08/09/2016	L6870/1993/12	Amendment Notice 1- Addition of a second clarifier to the Licence
02/09/2020	L6870/1993/12	Licence amendment to include historical discharge of treated effluent to neighbouring BHP owned wetland area. The amendment also includes the addition of a groundwater monitoring condition. Amendment was granted in the form of a revised licence, including consolidation of Amendment Notice 1 issued on 08 September 2016.
15/08/2022	W6644/2022/1	Works approval – Upgrades to the clarifier & associated infrastructure.
28/07/2023	L6870/1993/13	New Administrative Licence Renewal issued for twenty year duration.
Pending	W6680/2022/1	Works approval to undertake major upgrade works to the WWTP infrastructure to facilitate continued operation and cessation of discharge to the Emergency Discharge Point by 2027.

## 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:

### Infrastructure and equipment

1. The licence holder must manage the WWTP in a manner such that:
  - (a) stormwater runoff resulting from roof and site drainage does not enter the wastewater treatment tanks;
  - (b) extreme rainfall events do not cause overtopping of the treatment tanks;
  - (c) there is no discernible seepage loss from the plant; and
  - (d) vegetation and floating debris (emergent or otherwise) shall be prevented from growing within treatment tanks.
2. The licence holder must operate the second clarifier (as shown in Figure 2) to the following specifications:
  - (a) concrete construction and maintained in an impervious condition; and
  - (b) the maximum flow rate to the second clarifier shall not exceed 800 kiloliters per day.
3. The licence holder must maintain the flow meter used to measure monthly cumulative volumes of treated wastewater discharged from the WWTP to the Recycled Water Scheme.

### Emergency Storage Facility

4. The licence holder must ensure that during periods of plant failure or maintenance, the licence holder shall direct wastewater to the impervious storage facility, which has a minimum capacity of 5000 cubic metres (5 days nominal flow).
5. The licence holder must, upon completion of the period of plant failure or maintenance as referred to in condition 3, direct collected wastewater to the inlet works of the plant for treatment.

## Emissions and discharges

### Discharge of treated wastewater

6. The licence holder must discharge all treated wastewater from the WWTP, through the effluent pipe to a holding pond(s), prior to off-site transfer for irrigation or discharge to the Emergency Discharge Point Area.
7. The licence holder must ensure that where treated wastewater is discharged via the discharge points referenced in Table 1 and identified on the map of discharge points in Schedule 1 Figure 4, it is done so in accordance with the conditions of this Licence.

**Table 1: Discharges to land**

<b>Discharge point reference on Map of discharge points (Schedule 2, Figure 4)</b>	<b>Description</b>	<b>Source including abatement</b>
Discharge to Recycled Water Scheme – D1	Discharge to Shire Recycled Water Scheme	Treated wastewater/ effluent discharged from the Treated Effluent Holding Pond
Discharge to the off-site Emergency Discharge Point	<ul style="list-style-type: none"> <li>Discharge of up to 0.5ML per day of treated wastewater to the Emergency Discharge Point;</li> <li>In the event of an emergency, the licence holder may discharge up to 2ML per day of treated wastewater to the Emergency Discharge Point for a period or cumulative periods not exceeding one month per annual period in accordance with notification condition 18.</li> </ul>	Treated wastewater/ effluent discharged from the Treated Effluent Holding Pond only in an emergency / when insufficient demand for irrigation from the Recycled Water Scheme.

8. The licence holder must cease discharge of treated wastewater to the Emergency Discharge Point by 31 December 2027.

### Odour Emissions

9. The licence holder must ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

### Disposal of Sludge Material

10. The licence holder must ensure that any sludge removed from the wastewater ponds is disposed of in accordance with the Western Australian Guidelines for Direct Land Application of Biosolids and Biosolids Products, February 2002 or to an approved facility.

### General monitoring

11. The licence holder must ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
  - all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
  - all microbiological samples are collected and preserved in accordance with AS 2031; and
  - all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured unless indicated otherwise in the relevant table.

## Monitoring of inputs and outputs

12. The licence holder must undertake the monitoring in Table 2 according to the specifications in that table.

**Table 2: Monitoring of inputs and outputs**

Input/ Output	Monitoring point reference	Parameter	Units	Averaging period	Frequency
Sewage – Inlet flow	Inflow meter	Volumetric flow rate (cumulative)	m <sup>3</sup> /day	Monthly	Continuous
Treated wastewater discharged to Shire storage for irrigation (Recycled Water Scheme)	Outflow meter				

## Discharges

13. The licence holder must undertake the monitoring in Table 3 according to the specifications in that table.

**Table 3: Monitoring of discharges**

Monitoring location	Parameter	Unit	Frequency
Final treated wastewater sample point S1, as shown in Schedule 1, Figure 1	pH <sup>1</sup>	pH units	Monthly
	Biochemical Oxygen Demand (5 day)	mg/L	
	Total Nitrogen		
	Total Phosphorus		
	Total Suspended Solids		
	Total Dissolved Solids		
	<i>Escherichia coli</i> <sup>2</sup>	CFU/100ml	

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

Note 2: 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.

## Groundwater Monitoring

14. The licence holder must undertake the monitoring in Table 4 according to the specifications in that table.

**Table 4: Monitoring of ambient groundwater quality**

Monitoring bore location	Parameter	Unit	Frequency	Averaging period
Groundwater bores: B1 to B7 inclusive, as per locations shown in Schedule 1, Figure 3.	Standing water level <sup>1</sup>	m(AHD) and mBGL	Six monthly	Spot sample
	pH <sup>1</sup>	pH		
	Conductivity <sup>1</sup>	mS/cm		
	Chemical Oxygen Demand	mg/L		
	Biochemical Oxygen Demand			
	Total Dissolved Solids			
	Total Nitrogen			
	Total Phosphorus			
	Ammonia			
	Nitrate			
	Nitrite			
	Chloride			
	<i>Escherichia coli</i> <sup>2</sup>	CFU/100ml		

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

Note 2: 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.

## Records and reporting

15. 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:
- the name and contact details of the complainant, (if provided);
  - the time and date of the complaint;
  - the complete details of the complaint and any other concerns or other issues raised; and
  - the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
16. The licence holder must:
- undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
  - prepare and submit to the CEO by 1 October annually, an Annual Audit Compliance Report in the approved form.

17. The licence holder must submit to the CEO by 1 October 2023 and biennially thereafter, an Environmental Report for that reporting period for the conditions listed in Table 5, and which provides information in accordance with the corresponding requirements set out in Table 5.

**Table 5: Environmental Report**

Condition	Parameter	Format or Form
Condition 12; Table 2	Monitoring of inputs and outputs	Tabular
Condition 13; Table 3	Treated wastewater discharge monitoring results, including calculation of loading rates for discharge to: a) Recycled Water Scheme; and b) Emergency Discharge Point	None specified
Condition 14; Table 4	Ambient groundwater monitoring results	Tabular and trend graphs
Condition 15	A summary of the number and type of complaints received	None specified
Condition 16	Compliance	AACR
Conditions 6 & 7; Table 1 and Condition 18	A summary of all emergency discharge events that occurred over the reporting period	None specified

18. The licence holder must provide written notification to the CEO, along with justification for the discharge and expected timeframes for resolution, prior to any emergency discharge to the Emergency Discharge Point, in accordance with condition 7.
19. 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 this licence;
  - (c) monitoring programmes undertaken in accordance with conditions 12, 13 and 14 of this licence;
  - (d) notifications provided in accordance with condition 18; and
  - (e) complaints received under condition 15 of this licence.
20. The books specified under condition 19 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 Table 6 have the meanings defined.:

**Table 6: Definitions**

Term	Definition
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 01 September until 31 August of the immediately following year.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples</i> .
S/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 <i>Water Quality – Sampling – Guidance on sampling of waste waters</i> .
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on sampling of groundwaters</i> .
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 <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
CFU	colony forming units
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (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.
Emergency Discharge Point	refers to the off-site discharge point into a wetland area on adjacent Lot 568 on Plan 400579 as shown in Schedule 2, Figure 4
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
Final Treated Wastewater	means the location of the final treated wastewater sampling point labelled ‘S1’ in Schedule 1, Figure 1.



Term	Definition
Sample Point	
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.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises maps (Figures 1 and 2) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
Recycled Water Scheme	refers to the Shire of East Pilbara's Department of Health Recycled Water Scheme Approval D58/00000
waste	has the same meaning given to that term under the EP Act.
WWTP	Wastewater treatment plant

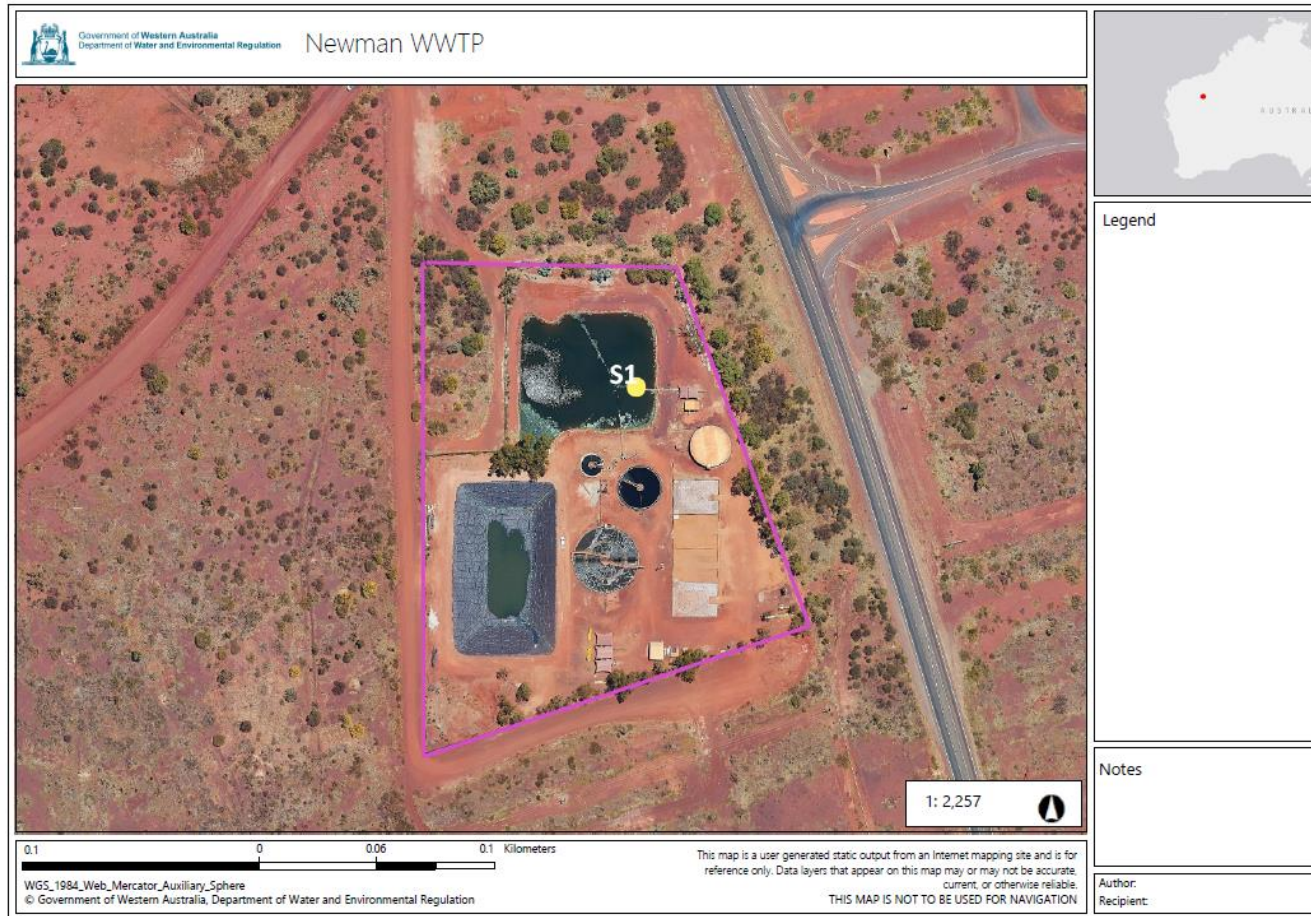
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**END OF CONDITIONS**

# Schedule 1: Maps

## Premises map

The boundary of the prescribed premises is shown in pink on the map below.



**Figure 1: Premises boundary and location of treated wastewater sampling point**

L6870/1993/13 (Issued on 28 July 2023)

## Premises layout

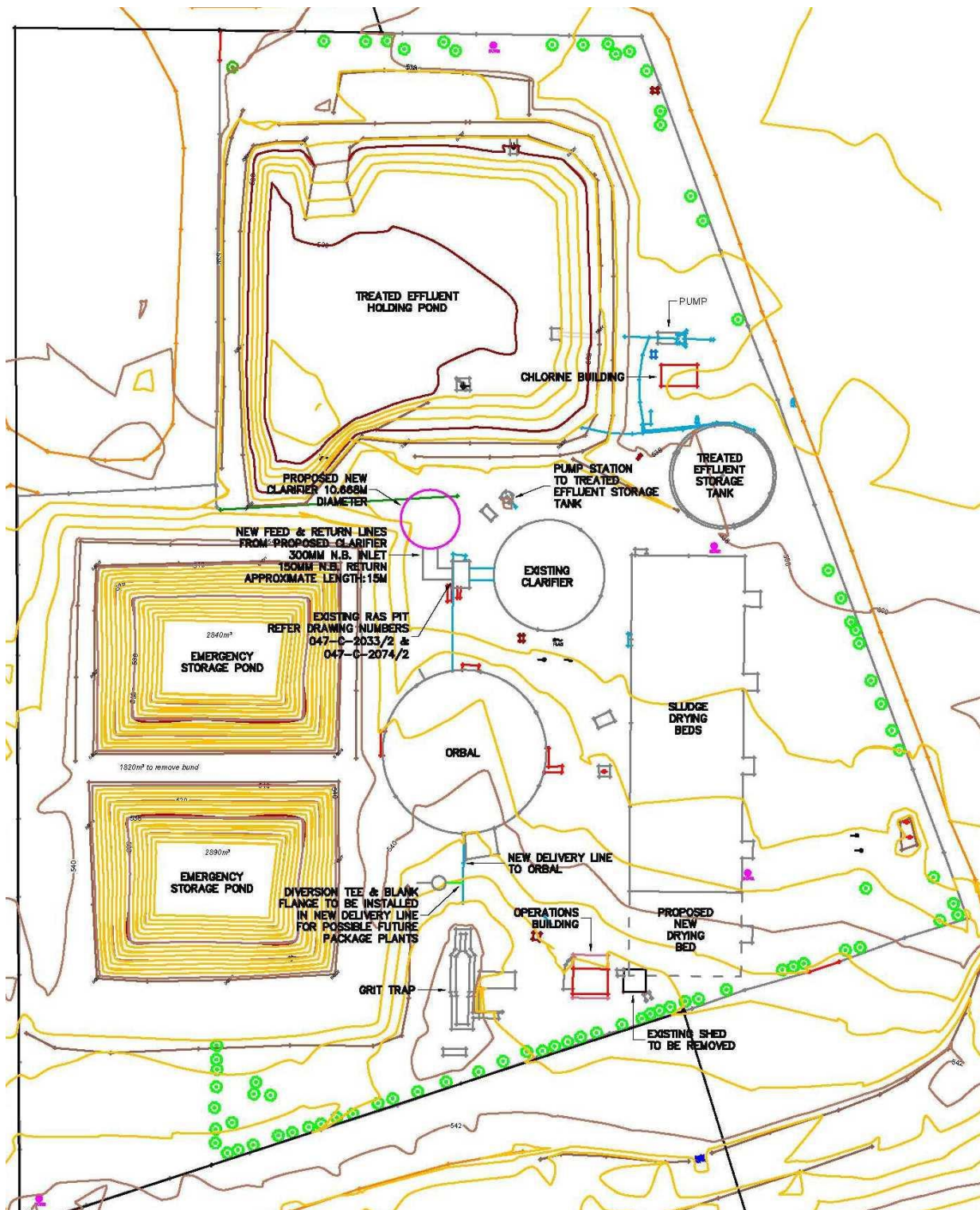


Figure 2: Layout of the prescribed premises



## Groundwater monitoring sites

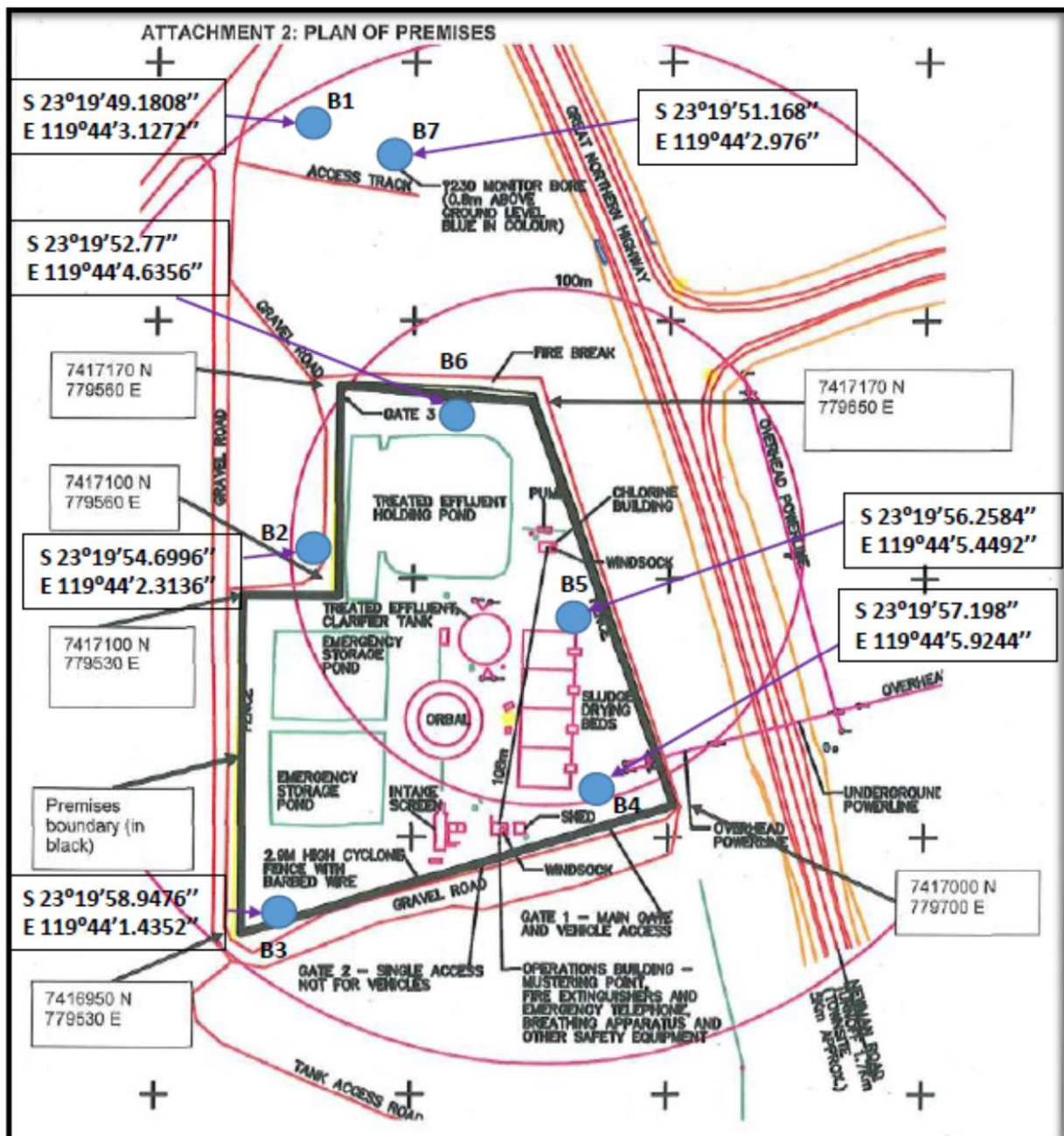


Figure 3: Location of groundwater monitoring bores



## Discharge Points map

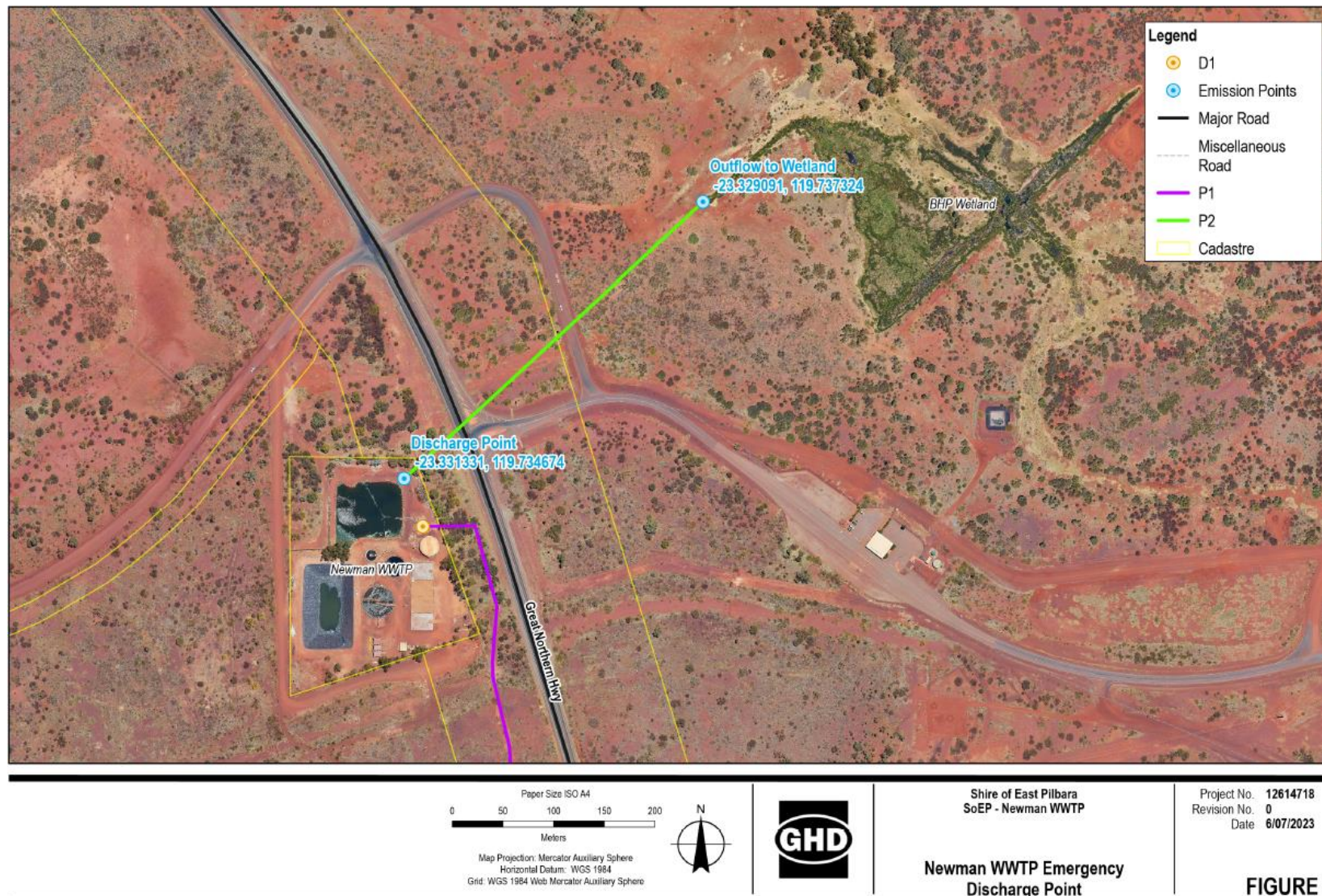


Figure 4: D1 & Discharge point to Wetland outflow

## Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates of premises boundary shown in Schedule 1 Figure 1 and listed in Table 7 below;

**Table 7: Premises boundary coordinates (GDA2020)**

Pt	Position	Easting	Northing	GDA 2020 Zone
1	North-west	779534	7417178	50
2	North-east	779647	7417173	50
3	South-east	779703	7417013	50
4	South-west	779530	7416960	50