Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6513/2021/1
Works approval holder	Taliska Securities Pty Ltd
ACN	097 606 641
Registered business address	Unit 217, 396 Scarborough Beach Road OSBORNE PARK WA 6151
DWER file number	DER2020/000253
Duration	6/09/2021 to 6/09/2026
Date of issue	6/09/2021
Premises details	Midland Pumping Station No, 51-10 500 Katharine Street BELLEVUE WA 6056 Legal description Part of Lot 799 on Plan 408219 Certificate of Title Volume 2912 Folio 863 As defined by the coordinates in Schedule 2

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed design capacity**
Category 85A Sewage pumping station: premises on which sewage is pumped (other than to or from septic tanks) and where a discharge of waste from the station may enter the Swan River or the Canning River	Not applicable

This works approval is granted to the works approval holder, subject to the attached conditions, on 6 September 2021, by:

Digitally signed by Abbie Crawford
Date: 2021.09.06 09:41:10 +08'00'

Abbie Crawford
A/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
06/09/2021	W6513/2021/1	Works approval granted.

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

Management plans

1. The works approval holder must submit to the CEO an Emergency Discharge Response Procedure for the management, response and mitigation of impacts from a possible emergency discharge from the sewage pumping station prior to commissioning the items of infrastructure as listed in condition 3, Table 1.

2. The Emergency Discharge Response Procedure required by condition 1 must address the following:

(a) set out how the minimum obligations of a wastewater service provider will be met consistent with the *Wastewater overflow response procedures* specific to the scope of operations and environmental siting of the premises; and

(b) detail sequential response procedures for the possible failure of power supply, pumps, pumping station bypass capacity and the emergency storage tank capacity being exceeded, including discharge to public open space.

Infrastructure and equipment

3. The works approval holder must:

(a) construct and/or install the infrastructure and 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 pumping station (Type 10)	a) Impervious precast concrete wet well with a diameter of 1.8 m, with a sewer inlet at approximately 6.0 mbgl, sunk to a depth of approximately 7.33 mbgl. b) Odour filters connected to the wet well vent. c) Two pump sets housed within the wet well that run in a duty/standby configuration, the standby pump must automatically operate if the duty pump fails. d) Impervious precast concrete valve pit with a diameter of approximately 1.8 m. e) Alarms operating at the following process points: (i) If the power supply fails; (ii) If the first pump stops working; (iii) If the second pump stops working; (iv) If specific trigger levels with the wet well are reached following the failure of both pumps; (v) If the emergency storage tanks are full and about to discharge to the environment; and	As defined in Figure 1, Figure 2 and Figure 3 of Schedule 1

Infrastructure		Design and construction / installation requirements	Infrastructure location
		f) Hydrostatic testing of the sewage pumping station must be undertaken, using potable water only, for a minimum 24 hours and any defects resolved.	*Continued.*
2.	Emergency Storage	a) Impervious emergency storage tanks must have a minimum storage capacity for 3.3 hrs at an inflow of 8.33 L/s. b) Cumulative emergency storage volume must be provided by sewer reticulation pipes, access chambers and the emergency storage tanks. c) Cumulative emergency storage volume must be for a minimum storage capacity for 6.3 hrs at an inflow of 8.33 L/s. d) Emergency overflow discharge from the sewage pumping station must only be directed to the environment where the receiving lands can effectively contain a minimum volume of 9 hours at an inflow of 8.33 L/s.	

Acid sulfate soil and dewatering management

4. The works approval holder must manage:

(a) acid sulphate soils, in accordance with the *Acid sulphate soil management plan* and consistent with the acid sulphate soil guidelines; and

(b) dewatering in accordance with the *Dewatering management plan*;

5. The works approval holder must ensure where ASS or PASS is disposed of to an authorised facility that receipts or other acceptance records from the relevant facility, including details of the total amount of ASS or PASS material disposed is provided in the Environmental Compliance Report required under Condition 9.

6. The works approval holder must ensure that treated ASS or PASS is only re-used at the premises after validation sampling confirms neutralisation has been achieved.

7. The works approval holder must ensure treated dewatering effluent meets a pH range between 6.0 and 8.5 and with a total acidity level not exceeding 40 mg/L as $CaCO_3$.

8. The works approval holder must monitor dewatering effluent for concentrations of the identified parameters in accordance with Table 2.

Table 2: Monitoring of dewatering effluent

Parameter	Units	Location	Frequency	Sample	Method
Electrical conductivity	mg/L	Dewatering sedimentation basin and Dewatering infiltration basin	Every day during dewatering operations	In-field measurement	All water samples are collected and preserved in accordance with AS/NZS 5667.1 and sampling conducted in accordance with AS/NZS 5667.4
pH	N/A				
Total alkalinity	mg/L				
Total titratable acidity					
pH	N/A		Weekly analysis of pre-filtration during dewatering operations	Spot sample	
Total alkalinity	mg/L				
Total titratable acidity					

Compliance reporting

9. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 3 being constructed and / or installed:

(a) undertake an audit of their compliance with the requirements of condition 3; and

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

10. The Environmental Compliance Report required by condition 9, 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 3, have been constructed in accordance with the relevant requirements specified in condition 3;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 3;

(c) a summary of the ASS/ PASS dewatering management measures undertaken at the premises during construction;

(d) a summary of the monitoring of dewatering effluent data obtained; and

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

Records and reporting

11. 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.

12. 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 3;

(b) monitoring programmes undertaken in accordance with condition 8; and

(c) complaints received under condition 11.

13. The books specified under condition 12 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 3 have the meanings defined.

Table 3: Definitions

Term	Definition
acid sulfate soil	includes both sulfidic soil materials as potential acid sulfate soils and sulfuric soil materials as actual acid sulfate soils.
acid sulfate soils guidelines	means the documents Department of Environment and Regulation 2015, *Identification and investigation of acid sulfate soils and* acidic landscapes and *Treatment and management of soils and water in acid sulfate soil landscapes*
Acid sulphate soil management plan	Douglas Partners 2018 *Appendix D: Acid sulphate soil management plan*
annual period	a 12 month period commencing from 1 July until 30 June of the immediately following year.
AS 1726	means Standards Australia *AS 1726 Geotechnical site investigations*
AS 5667.1	means Standards Australia *AS 5667.1 Water quality – sampling Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*
AS 5667.4	means Standards Australia *AS 5667.4 Water quality – sampling Part 4: Guidance on sampling from lakes, natural and man-made*
ASS	means acid sulfate soils
books	has the same meaning given to that term under the EP Act.
$CaCO_3$	means Calcium carbonate
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
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.
Dewatering management plan	Douglas Partners 2018 *Appendix E: Dewatering management plan*
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 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).
mbgl	metres below ground level
neutralisation	Is the process of soil treatment meeting the following performance criteria: a) the neutralising capacity of the treated soil must exceed the existing plus potential acidity of the soil (e.g. pH_{fox} must be >5); b) the neutralising material has been thoroughly mixed with the soil; c) soil pH must be in the range of 6.0 to 8.5; and d) excess neutralising agent must remain within the soil until all acid generation reactions are complete and the soil has no further capacity to generate acidity.
PASS	means potential acid sulphate soils
potential acid sulfate soils	are soils or sediments which contain iron sulfides and/or other sulfidic minerals that have not been oxidised. The field pH of these soils in their undisturbed state is more than pH 4 and is commonly neutral to alkaline (pH 7 to pH 9). These soils or sediments are invariably saturated with water in their natural state. The waterlogged layer may be peat, clay, loam, silt, or sand and is usually dark grey and soft but may also be dark brown, or medium to pale grey to white.
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.
suitably qualified engineer	means a person who: a) holds a Bachelor of Engineering recognised by the Institute of Engineers; and b) has a minimum of five years' experience working in a supervisory role in civil or structural engineering; and c) has worked for a minimum of four of the last five years;
waste	has the same meaning given to that term under the EP Act.
Wastewater overflow response procedures	means the document Government of Western Australia 2013, *Wastewater overflow response procedures* as amended from time to time
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

The location of the sewage pump station within Lot 799 on Plan 408219 is indicated by the red text and red circle in the map below (

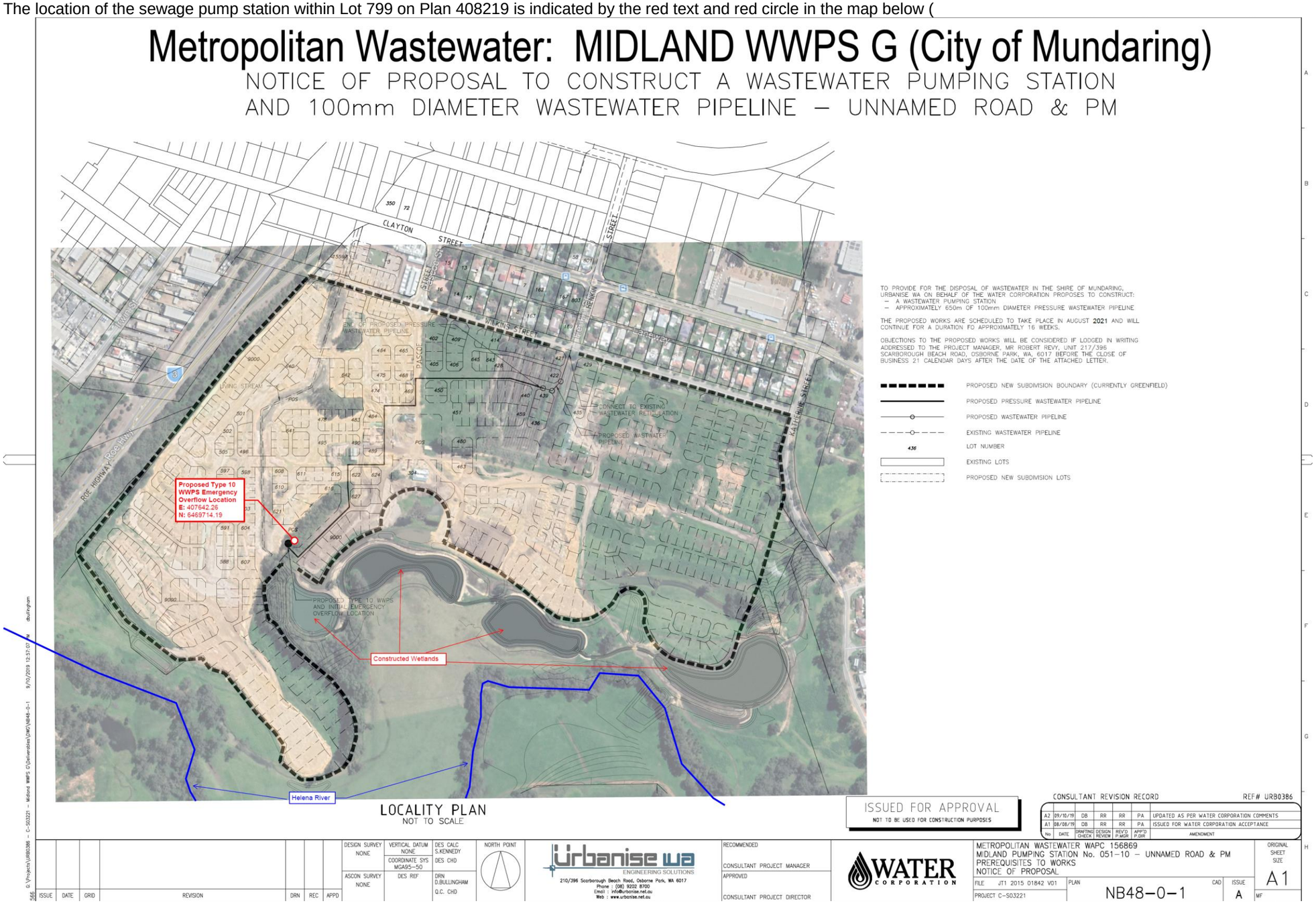
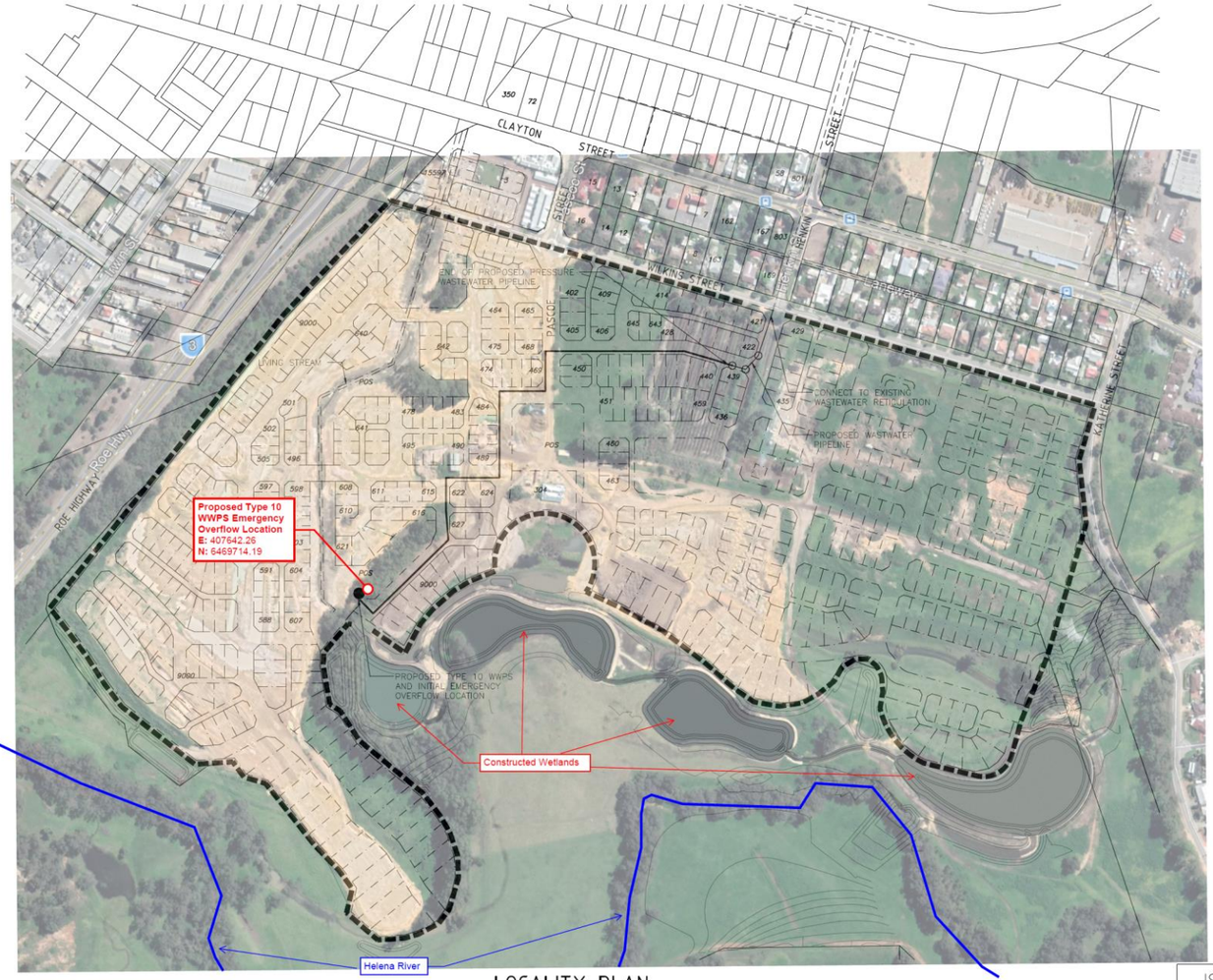


Figure **1**) and the boundary of the premises in shown in Figure 2 and Schedule 2.

Metropolitan Wastewater: MIDLAND WWPS G (City of Mundaring)

NOTICE OF PROPOSAL TO CONSTRUCT A WASTEWATER PUMPING STATION AND 100mm DIAMETER WASTEWATER PIPELINE – UNNAMED ROAD & PM



LOCALITY PLAN
NOT TO SCALE

TO PROVIDE FOR THE DISPOSAL OF WASTEWATER IN THE SHIRE OF MUNDARING, URBANISE WA ON BEHALF OF THE WATER CORPORATION PROPOSES TO CONSTRUCT:
- A WASTEWATER PUMPING STATION
- APPROXIMATELY 650m OF 100mm DIAMETER PRESSURE WASTEWATER PIPELINE

THE PROPOSED WORKS ARE SCHEDULED TO TAKE PLACE IN AUGUST **2021** AND WILL CONTINUE FOR A DURATION FO APPROXIMATELY 16 WEEKS.

OBJECTIONS TO THE PROPOSED WORKS WILL BE CONSIDERED IF LODGED IN WRITING ADDRESSED TO THE PROJECT MANAGER, MR ROBERT REVY, UNIT 217/396 SCARBOROUGH BEACH ROAD, OSBORNE PARK, WA, 6017 BEFORE THE CLOSE OF BUSINESS 21 CALENDAR DAYS AFTER THE DATE OF THE ATTACHED LETTER.

- PROPOSED NEW SUBDIVISION BOUNDARY (CURRENTLY GREENFIELD)
- PROPOSED PRESSURE WASTEWATER PIPELINE
- PROPOSED WASTEWATER PIPELINE
- EXISTING WASTEWATER PIPELINE
- 436 LOT NUMBER
- EXISTING LOTS
- PROPOSED NEW SUBDIVISION LOTS

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

CONSULTANT REVISION RECORD REF# URB0386

No	DATE	DRAFTING CHECK	DESIGN REVIEW	REV'D P.MGR	APP'D P.DIR	AMENDMENT
A2	09/10/19	DB	RR	RR	PA	UPDATED AS PER WATER CORPORATION COMMENTS
A1	08/08/19	DB	RR	RR	PA	ISSUED FOR WATER CORPORATION ACCEPTANCE

ISSUE	DATE	GRID	REVISION	DRN	REC	APPD

DESIGN SURVEY NONE; VERTICAL DATUM NONE; COORDINATE SYS MGA95–50; ASCON SURVEY NONE; DES REF; DES CALC S.KENNEDY; DES CHD; DRN D.BULLINGHAM; Q.C. CHD; NORTH POINT

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RECOMMENDED CONSULTANT PROJECT MANAGER
APPROVED CONSULTANT PROJECT DIRECTOR

WATER CORPORATION

METROPOLITAN WASTEWATER WAPC 156869
MIDLAND PUMPING STATION No. 051–10 – UNNAMED ROAD & PM
PREREQUISITES TO WORKS
NOTICE OF PROPOSAL

FILE JT1 2015 01842 V01 | PLAN NB48–0–1 | CAD | ISSUE A | ORIGINAL SHEET SIZE A1
PROJECT C–S03221 | MF

G:\Projects\URB0386 – C–S03221 – Midland WWPS G\Deliverables\[JPW]\NB48–0–1 9/10/2019 12:37:07 PM dbullingham

Figure 1: Location of the prescribed premises and environmental siting

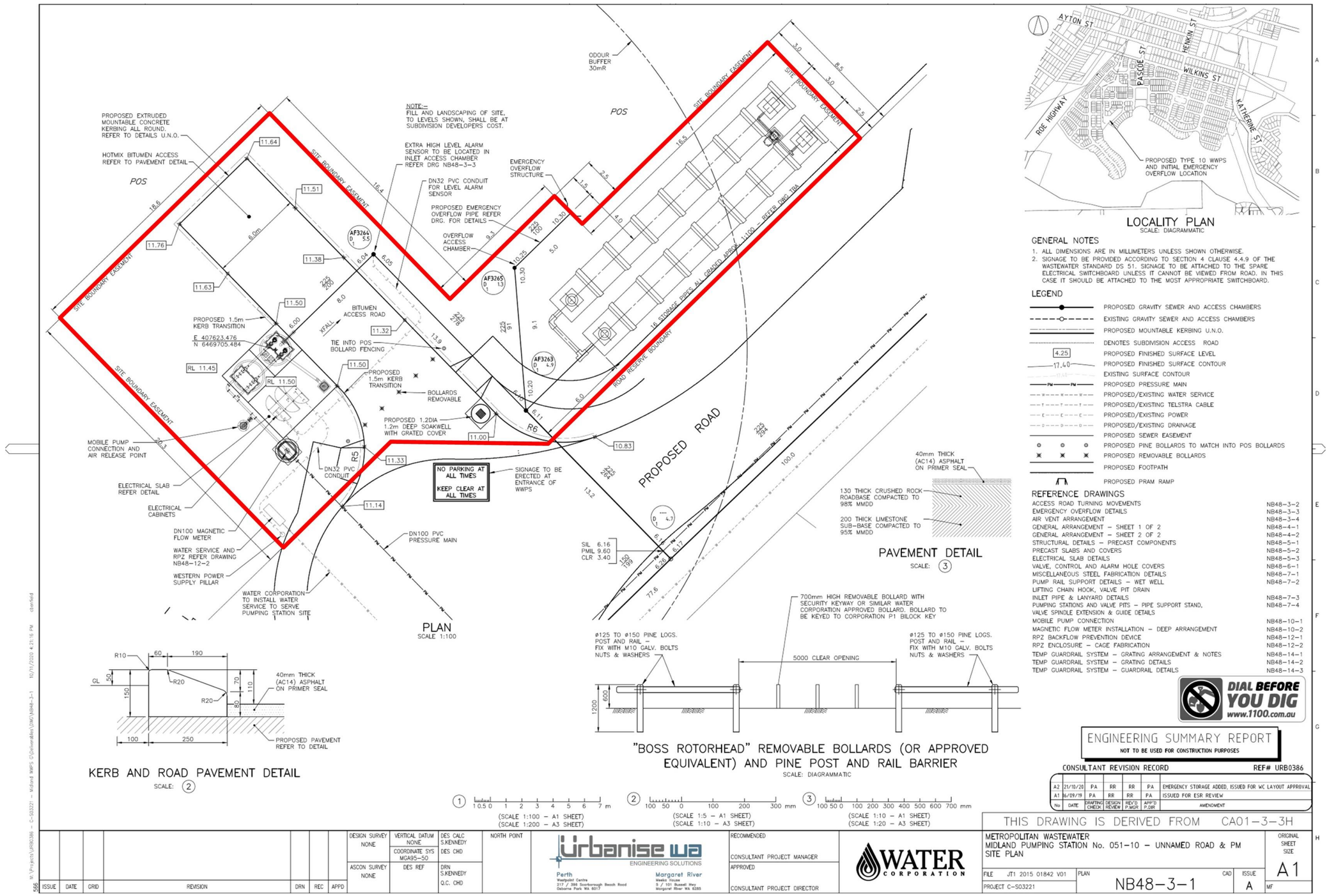

Figure 2: Boundary of the prescribed premises and location of operational equipment and infrastructure

Schedule 2: Premises boundary

The premises boundary is defined by the coordinates in Table 4 and Figure 3 (GDA 1994 Zone 50).

Table 4: Coordinates for boundary of premises

Coordinate	Easting	Northing
1	407623.10	6469720.48
2	407634.54	6469708.75
3	407641.21	6469715.26
4	407642.96	6469713.47
5	407654.78	6469724.99
6	407660.71	6469718.91
7	407640.82	6469699.50
8	407630.82	6469699.63
9	407623.97	6469692.94
10	407609.78	6469707.49

Figure 3: Coordinates for boundary of premises