



Licence number L6755/1996/10
Licence holder Pilbara Iron Company (Services) Pty Ltd
ACN 107 210 248

Registered business address 'Central Park' Level 18
152-158 St George's Terrace
PERTH WA 6000

Application number APP-0029611
Internal number INS-0003295

Duration 04/06/2026 to 05/06/2031

Date of issue 04/06/2026

Premises details Dampier Wastewater Treatment Plant

Legal description -
Lot 362 on Plan 14280
DAMPIER WA 6713
As defined by the premises map in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed 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.	900 m ³ per day

This licence is granted to the licence holder, subject to the attached conditions, on 4 June 2026, by:

Grace Heydon
MANAGER, WASTE INDUSTRIES

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

[L6755/1996/10 \(4 June 2026\)](#)

APP-0029611, INS-0003295

Licence history

Date	Reference number	Summary of changes
27/05/2004	Licence 6755/9	Licence reissued
31/05/2007	Licence 6755/11	Licence reissued
30/05/2013	L6755/1996/9	Licence reissued
26/06/2014	L6755/1996/9	Licence amended to expand the premises boundary, include the WWTP grounds as a discharge location and bring the target discharge in line with the <i>Guideline for the Non-potable Uses of Recycled Water in Western Australia</i> ((Department of Health (DoH), August 2011) low risk exposure level.
04/06/2026	L6755/1996/10	APP-0029611. Licence renewal, including incorporation of Works Approval W6928/2024/1 for the addition of a new treated wastewater storage tank, and revised prescribed premises boundary limited to WWTP lot.

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

Table 1: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Wastewater Treatment System consisting of: 3 x Imhoff tanks 3 x Screen pits 3 x Trickling bed filters Humus tank Chlorination pit 2 x Treated effluent holding tanks 2 x Surge/Buffer storage Tanks (60 kL each)	The licence holder must manage and operate the wastewater treatment system in a manner such that: a) uncontaminated stormwater runoff does not enter the treatment system; b) there is no discernible seepage loss from the treatment system; c) vegetation (emergent or otherwise) shall be prevented from growing in the treatment system; d) all sludge removed from the Imhoff tanks must be stored temporarily on-site within the lined sludge drying bed; and e) any sludges removed from the treatment system are disposed of in accordance with the <i>Western Australian guidelines for biosolids management, Department of Environment and Conservation</i> (February 2012)	As depicted in Schedule 1, Figure 1
HDPE lined sludge drying bed	a) The licence holder must maintain the integrity of the sludge drying bed liner to ensure it remains impermeable and prevents the release of wastewater or leachate to the environment. b) The sludge drying bed shall be managed to prevent surface runoff of leachate across the boundary of the premises. c) Where possible, the sludge leachate shall be returned back into the wastewater treatment system.	As depicted in Schedule 1, Figure 1
Chemical storage room/area	a) Environmentally hazardous chemicals including alum and hypochlorite (where the total volume of each substance stored on the premises exceeds 250 litres) must be stored within a bunded area in accordance with Australian Standard 3780. b) Any stormwater that accumulates in the chemical storage area must be directed to the wastewater treatment system.	As depicted in Schedule 1, Figure 1

Emissions and discharges

2. The licence holder must ensure that the emissions specified in Table 2, are discharged only from the corresponding discharge points to the specified discharge locations and in accordance with the corresponding specifications.

Table 2: Authorised discharge points to land and water

Emission	Discharge point	Discharge specification
Treated wastewater	Outlet of Effluent Storage Tank TK05 – 225 kL (as depicted in Schedule 1, Figure 1)	Discharges are to be primarily via irrigation to the grounds of the WWTP and the City of Karratha reuse network consisting of: <ul style="list-style-type: none"> • Dampier Oval • Hampton Oval • Hardey Reserve • Fitzroy Park (Drainage Reserve 42159) • The Esplanade
Treated wastewater	Flume outflow to ocean (As depicted in Figure 2 of Schedule 1)	Discharge of treated wastewater to the ocean is authorised only where volumes are surplus to the requirements of the City of Karratha recycled water reuse scheme.

3. The licence holder must ensure that the nutrient loading rates for the irrigation areas specified in Table 2 do not exceed the targets in Table 3 for the corresponding parameters in Table 3.

Table 3: Nutrient loading rates for the Dampier WWTP irrigation areas

Parameter	Target
Total Nitrogen	480 kg/ha/year
Total Phosphorus	120 kg/ha/year

Calculation of Contaminant Load

4. The licence holder must determine the average monthly load of each contaminant in the wastewater discharged from Effluent Storage Tank TK05 (except pH and *E.coli*) using flow weighted data. The contaminant loads must be based on the treated wastewater discharge volumes and concentrations as measured in accordance with condition 6.

Monitoring

5. The licence holder must maintain suitable devices for measuring monthly cumulative volumes of treated wastewater discharged from the treatment system to:
- i) The ocean discharge outlet;
 - ii) Each irrigation area, including Dampier Oval, Hampton Oval, Hardey Reserve, Fitzroy Park, and the Esplanade; and
 - iii) The WWTP grounds.
6. The licence holder must monitor treated wastewater quality and discharge volumes in accordance with Table 4.

Table 4: Water quality monitoring

Discharge point	Monitoring location	Parameter	Frequency	Averaging period	Unit	Method
Outlet of Effluent Storage Tank TK05 – 225 kL (as depicted in Schedule 1, Figure 1)	Flow meters	Volume of treated wastewater discharged	Continuous	Cumulative daily	kL/day	N/A
	Treated effluent tank	pH ¹	Quarterly	Spot sample	pH unit	AS 5667.1 and AS 5667.10
		Biochemical Oxygen Demand			mg/L	
		Dissolved Organic Carbon (DOC)				
		Total Dissolved Solids				
		Total Suspended Solids				
		Nitrate nitrogen				
		Nitrite nitrogen				
		Ammonium nitrogen				
		Total Nitrogen				
		Total Phosphorus				
		Free chlorine				
		<i>E.coli</i>			cfu/100 mL	
		<i>Enterococci</i>				
Metals (Cu, Zn, As, Pb, Hg)	Quarterly	Spot sample	mg/L	AS 5667.1 and AS 5667.10		

Note 1: non- NATA *in situ* testing permitted

7. For the monitoring activity required by condition 6, the licence holder must:
- record the results;
 - handle and preserve all water samples collected during monitoring in accordance with AS 5667.1 and AS5667.10; and
 - have analysis conducted by a laboratory with current National Association of Testing Authorities (NATA) accreditation for the parameters specified, unless otherwise specified in Table 4.

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8. The licence holder must compare results of the water quality monitoring required by condition 6 for the discharge point in column 1, to the targets stated in column 3 of Table 5, for the parameters in column 2 of Table 5 and present this information in the Annual Environmental Report along with corrective actions for any exceedances of these targets.

Table 5: Dampier WWTP effluent quality criteria

Discharge point	Parameter	Target Discharge
Outlet of Effluent Storage Tank TK05 – 225 kL (as depicted in Schedule 1, Figure 1)	pH (pH unit)	6.5-8.5
	Biochemical Oxygen Demand (mg/L)	<20
	Total Dissolved Solids (mg/L)	3 000
	Total Suspended Solids (mg/L)	<30
	Nitrate nitrogen (mg/L)	<30
	Nitrite nitrogen (mg/L)	<10
	Total Nitrogen (mg/L)	<50
	Total Phosphorus (mg/L)	<12
	<i>E.coli</i> (cfu/100 mL)	<1 000

Records and reporting

Records

9. 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.
10. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
- the calculation of fees payable in respect of this licence;
 - any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
 - monitoring programmes undertaken in accordance with condition 6 of this licence; and
 - complaints received under condition 9 of this licence.

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11. The books specified under condition 10 must:
- be legible;
 - if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
 - be retained by the licence holder for the duration of the licence; and
 - be available to be produced to an inspector or the CEO as required.

Reporting

12. 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 an Annual Audit Compliance Report in the approved form by 30 April each year.
13. The licence holder must:
- prepare an Environmental Report that provides information in accordance with Table 6 for the preceding two annual periods, and
 - submit that Environmental Report to the CEO by 30 April 2028 and biennially thereafter.

Table 6: Environmental reporting requirements

Condition	Requirement
N/A	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken.
1	Details of sludge disposal, including quantities and sludge disposal locations
3	Summary of nutrient loading rates for each irrigation area, including calculation methodology, comparison of calculated loading rates against the applicable targets, and details of corrective actions undertaken where loading targets were exceeded.
6	Results of laboratory analysis, including copies of NATA accredited laboratory reports, and a description of sampling methods used. The licence holder must provide confirmation that sampling was undertaken by appropriately qualified and competent personnel in accordance with relevant standards and procedures. Detailed supporting records relating to sampling personnel competency and sampling procedures need not be provided with the Environmental Report, however, must be maintained in accordance with Conditions 10 and 11 and be made available to the CEO upon request.
8	Summary of treated wastewater quality monitoring results at the discharge point, comparison of results against applicable effluent quality targets in Table 5, and details of corrective actions undertaken for any exceedances.
9	Summary of complaints received and any actions taken to investigate or respond
12	Record of compliance with licence conditions (AACR)

Specified actions

- 14.** The licence holder must:
- undertake Whole Effluent Toxicity (WET) testing of treated wastewater discharged to the marine environment by 5 June 2027.
 - ensure WET sampling is undertaken as close as practicable to the point and time of marine discharge and is representative of normal operating conditions;
 - ensure WET testing is conducted by a NATA-accredited laboratory in accordance with the *Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018)* and the *Revised Methods for Deriving Australian and New Zealand Water Quality Guideline Values for Protecting Aquatic Ecosystems from Toxicants (Warne et al., 2025)*, or as otherwise approved by the CEO; and
 - submit to the CEO, within 60 days of completing the testing, a report interpreting the WET results and assessing the potential risk to the receiving marine environment, including any recommended management or treatment responses.
- 15.** The licence holder must:
- prepare a Wastewater Treatment Upgrade Strategy that provides the information outlined in Table 7;
 - submit the Wastewater Treatment Upgrade Strategy to the CEO by no later than 5 June 2027;
 - ensure the Wastewater Treatment Upgrade Strategy is based on recent and representative monitoring data, including treated wastewater quality, contaminant loading, and any available whole of effluent toxicity information; and
 - review and update the Wastewater Treatment Upgrade Strategy if required by the CEO, where new information becomes available or where necessary to inform potential amendments to licence conditions relating to treated wastewater quality or nutrient loading.

Table 7: Wastewater Treatment Upgrade Strategy submission requirements

Information requirements	Format
Overview of the existing Dampier WWTP treatment processes, design capacity, average throughput, and current treated wastewater quality, with reference to recent monitoring and reporting data.	Letter / Report
Identification and assessment of treated wastewater quality limitations relevant to irrigation reuse and marine discharge, including nutrients (total nitrogen and total phosphorus), pathogens, metals, organic matter, and any other relevant parameters	
Conceptual design of proposed treatment upgrades, including treatment technology options considered, preferred option(s), and justification for selection.	
Expected treated wastewater quality outcomes following implementation of proposed upgrades, including indicative target concentrations for nitrogen and phosphorus and improvements relative to current treatment performance.	
Assessment of how the proposed upgrades would reduce nutrient loading to irrigation areas and improve the long-term sustainability of the recycled water reuse scheme.	

Information requirements	Format
Assessment of how the proposed upgrades would improve treated wastewater quality with respect to potential discharge to the marine environment, including alignment with contemporary environmental guideline values.	
An implementation program, including indicative timeframes for investigation, design, approvals, construction, commissioning, and operation of upgrades.	

Definitions

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

Table 8: Definitions

Term	Definition
ACN	Australian Company Number
AS 3780	means the most recent version, and the relevant parts, of Australian Standard 3780 for the storage and handling of corrosive substances.
AS 5667.1	means Australian Standard/New Zealand Standard 5667.1 Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.
AS 5667.10	means the Australian Standard AS/NZS 5667.10 Water Quality – Sampling – Guidance on sampling of wastewater.
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
annual period	a 12 month period commencing from 1 January until 31 December in that year.
biennially	means every two years.
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: info@dwer.wa.gov.au
cfu/100mL	means colony forming units per 100 millilitres.

Term	Definition
department; DWER	means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
kg/day	means kilograms per day.
kg/ha/year	means kilograms per hectare per year.
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.
mg/L	means milligrams per litre.
NATA	means the Australian National Association of Testing Authorities
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) 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.
WWTP	means wastewater treatment plant.
WWTP grounds	means the area in the immediate vicinity of the WWTP as depicted in Attachment 1.

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

L6755/1996/10 (4 June 2026)

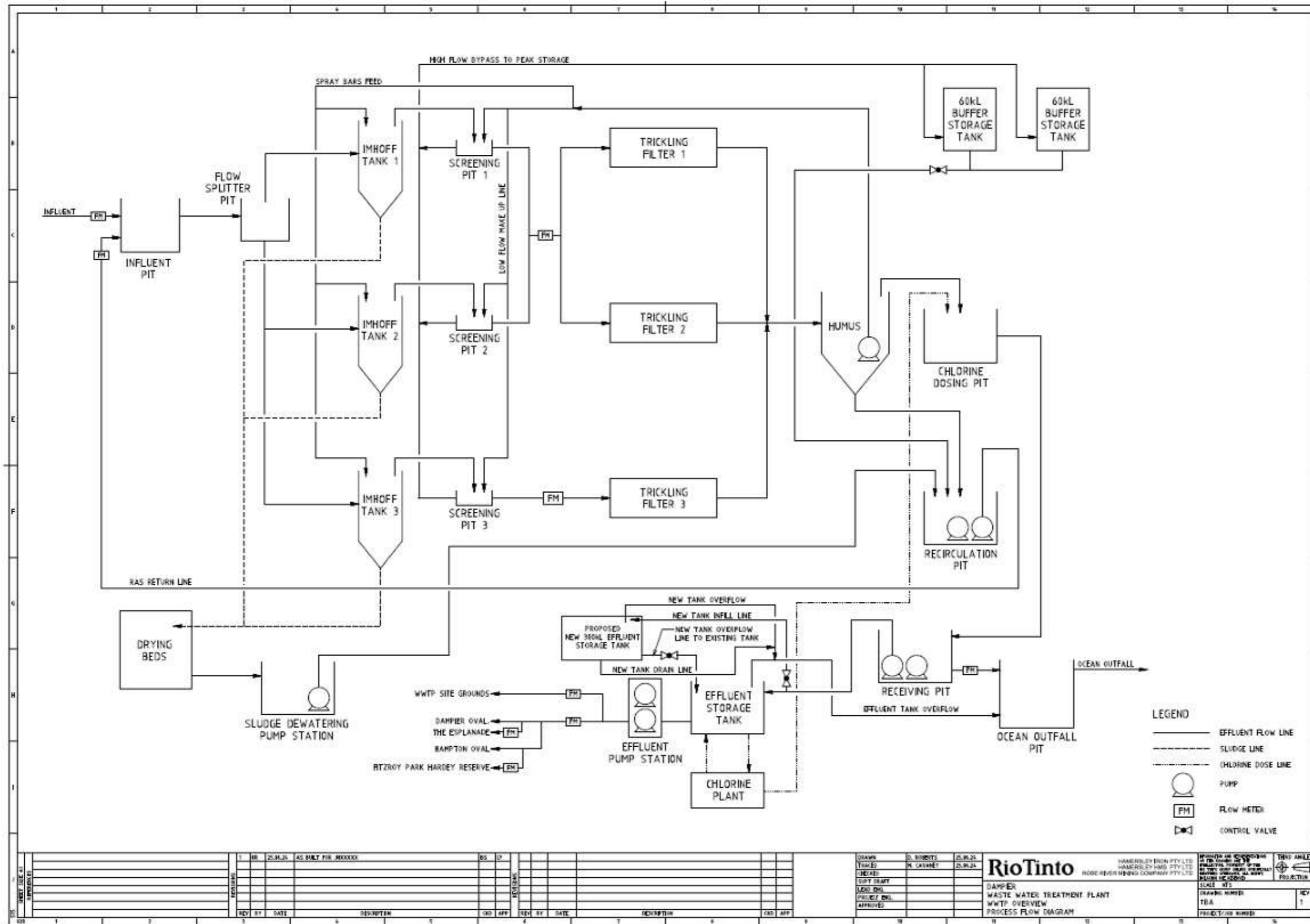


Figure 2: Premises schematic diagram