



<b>Licence number</b>	L4275/1982/15	
<b>Licence holder</b>	Mid-West Ports Authority	
<b>Registered business address</b>	298 Marine Terrace GERALDTON WA 6530	
<b>DWER file number</b>	2011/000451-4	
<b>Duration</b>	18/03/2015 to	17/03/2025
<b>Date of issue</b>	12/03/2015	
<b>Date of amendment</b>	23/01/2024	
<b>Premises details</b>	Geraldton Port Part of Lot 503 on Deposited Plan 57801 GERALDTON WA 6530 As defined in Schedule 1	

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )	Assessed production / design capacity
Category 58: Bulk material loading or unloading: premises on which clinker, coal, ore, ore concentrate or any other bulk granular material (other than salt) is loaded onto or unloaded from vessels by an open materials loading system.	160,000 tonnes per day (cumulative); and 16,000,000 tonnes per annual period (cumulative)
Category 58A: Bulk material loading or unloading: premises on which salt is loaded onto or unloaded from vessels by an open materials loading system.	

This licence is granted to the Licence Holder, subject to the attached conditions, on 23 January 2024, by:

**A/MANAGER, RESOURCE INDUSTRIES**

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

## Licence history

Date	Reference number	Summary of changes
18/03/2008	L4275/1982/13	Licence re-issue.
09/02/2011	L4275/1982/13	Licence amendment: change of copper air quality target.
08/09/2011	L4275/1982/13	Licence amendment: change of lead air quality limit.
18/03/2012	L4275/1982/14	Licence re-issue.
03/01/2013	L4275/1982/14	Licence amendment: trial nickel exports.
14/02/2014	L4275/1982/14	Licence amendment for new cargo: nickel.
12/03/2015	L4275/1982/15	Licence re-issue and REFIRE conversation.
15/08/2018	L4275/1982/15	Amendment Notice 1: authorised to handle up to 300,000 tonnes per year of manganese ore out of Berth 6.
21/01/2019	L4275/1982/15	Amendment Notice 2: to allow for Trial conditions to apply evaporites including gypsum, salt and potash under Category 58A.
03/03/2020	L4275/1982/15	DWER initiated amendment to amalgamate Amendment Notices 1 and 2 in the Licence. During amalgamation process no risk assessment of the Premises was undertaken.
19/09/2021	L4275/1982/15	Amendment updating daily tonnage throughput to reflect current operations. Addition of mineral sands concentrate, clean fills and fertiliser as authorised bulk products to handle.
19/09/2021	L4275/1982/15	Amendment to authorise handling of iron concentrate at Berth 6.
23/01/2024	L4275/1982/15	Amendment for the inclusion of lithium direct shipping ore (DSO) and spodumene concentrate for authorised handling and export from Berth 4.

## 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:

### General conditions

1. The Licence Holder must operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
2. The Licence Holder must;
  - (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
  - (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.
3. The Licence Holder must ensure that a dust filtration system is in operation on any iron ore or metal concentrate shed whenever dust generating activities (including any stockpile disturbance) are being undertaken within the shed.

### Premises operation

4. The Licence Holder must notify the CEO in accordance with condition 15 of this Licence of any proposal to load or unload at the premises, any bulk granular material other than iron ore, lead sulphide concentrate, copper concentrate, zinc concentrate, nickel concentrate, talc, coal, mineral sands, or mineral sands concentrate, fertilisers or manganese ore, lithium DSO or spodumene concentrate.
5. The Licence Holder must instruct ship's masters that all spillage of cargo onto the deck of the vessel is to be collected in a manner to prevent it accessing the marine environment.
6. The Licence Holder must collect all spillage of iron ore, talc, mineral sands, mineral sands concentrate, metal concentrate, clean fill, and fertiliser within the premises in a manner to prevent it accessing the environment.
7. The Licence Holder must ensure that measures are taken to prevent spillage entering the marine environment via the gap between the berth and the vessel.
8. The Licence Holder must ensure that activities listed in Table 1 are undertaken in accordance with the corresponding operational requirement and location set out in Table 1.

**Table 1: Premises operational requirements**

Activity	Operational requirement	Infrastructure location
Export of mineral sands concentrate (MSC)	<ul style="list-style-type: none"> <li>• MSC loaded from Berth 6.</li> <li>• MSC loaded in sealed containers that are emptied into the hold of the vessel using a rotating tipping frame.</li> <li>• Containing a product moisture content between 4 % and 8.5 % w/w, as averaged over each shipment, with each shipment details recorded and maintained.</li> </ul>	Schedule 1: Maps Figure 1

Activity	Operational requirement	Infrastructure location
	<ul style="list-style-type: none"> <li>• Loaded from vertical drop height of less than 2 metres within the hold of the vessel.</li> <li>• Following each shipment of MSC, areas must be swept where mineral sand was loaded and transported including, but not limited to, Berth 6 and the trafficable route in and out of that Berth.</li> <li>• MSC waste material to be recovered from Berth clean-up activities is returned to Eneabba mine site.</li> <li>• No product storage on site.</li> </ul>	
Handling of fertiliser	<ul style="list-style-type: none"> <li>• Unloading from Berth 6 or Berth 2.</li> <li>• Dedicated washdown area for clean down of equipment used in the unloading of fertiliser based products.</li> <li>• Contaminated washwater captured and removed off site.</li> </ul>	
Clean fill	<ul style="list-style-type: none"> <li>• (non-silica) sands stored in enclosed sheds and loaded from Berth 4 or Berth 5.</li> <li>• Clay stored in enclosed sheds or rotainer storage area, handled in retainers via Berth 6.</li> </ul>	
Iron concentrate	<ul style="list-style-type: none"> <li>• Product transported in fully enclosed retainers to premises.</li> <li>• Retainers containing iron concentrate washed down prior transport to premises.</li> <li>• Operational moisture range of 12-17% during handling.</li> <li>• Dust suppression during ship loading shall be operational.</li> <li>• Product handled via Berth 6.</li> <li>• Loading only between November and April each year when winds are predominantly from the south.</li> <li>• No loading when westerly (between 225 and 337 degrees) wind conditions are over 10 knots.</li> </ul>	
Export of Lithium Direct Shipping Ore (DSO) and spodumene concentrate	<ul style="list-style-type: none"> <li>• Product transported in tarped haulage trucks to premises.</li> <li>• Product loaded from Berth 4.</li> <li>• Product loaded via the Berth 4 loading system. Handling via fully enclosed shed storage with internal hopper to conveyor, or truck unloader to conveyor.</li> <li>• Containing a product moisture content at or above DEM, as averaged over each shipment, with each shipment details recorded and maintained.</li> <li>• Loading with ship loader chute lowered and far as possible into the ships hold to minimise vertical drop height.</li> <li>• Maintain and operate dust extraction systems during operations.</li> <li>• Maintain and operate road sweeper to remove any product spillage.</li> </ul>	

Activity	Operational requirement	Infrastructure location
	<ul style="list-style-type: none"> <li>Maintain and operate Humeceptors on Berth 4 to recover spilt product and to prevent discharge to the marine environment.</li> </ul>	

9. The Licence Holder must:
  - (a) operate shed dust extraction equipment at all times when in-loading manganese ore into the manganese ore shed or when loading manganese ore into containers, resulting in a negative-pressure effect within the shed;
  - (b) keep the manganese ore shed closed when loading manganese ore into containers, unless doors are open for the ingress or egress of trucks;
  - (c) wash truck wheels prior to leaving the storage shed for the purpose of preventing the tracking out of manganese dust; and
  - (d) ensure that all manganese ore containers remain closed at all times when outside of the ship's hold and manganese ore storage shed.
  
10. Following each shipment of manganese ore, the Licence Holder must sweep all areas within the Premises where manganese ore is transported including, but not limited to, Berth 6 and the trafficable route from the manganese ore stockpile shed.
  
11. Where the DEM level can be determined for a distinct manganese ore product, the Licence Holder must only accept that product if it contains a Moisture Content above the DEM level.
  
12. For the purpose of determining compliance with condition 11, the Licence Holder must obtain and maintain for each manganese ore product:
  - (a) accurate records of the DEM level, as derived from the application of AS4156.6-2000; or
  - (b) a declaration from a third party laboratory stating that determination of DEM is not possible for that distinct manganese ore product.
  
13. The Licence Holder must obtain and maintain accurate records of the representative Moisture Content for each shipment of manganese ore (fines and lump).
  
14. The Licence Holder must within 30 days of the first shipment from the Premises of each distinct bulk manganese ore, and on a subsequent annual basis, determine the particle size distribution for each manganese ore product.

## Trial conditions

### Notification of a trial

- 15.** The Licence Holder must notify the CEO of a Trial and such notification (which the CEO will make publicly available) must:
- (a) be in writing;
  - (b) be made 30 calendar days or more prior to that Trial commencing;
  - (c) include details of the nature of the Trial, including whether the Trial is for:
    - (i) the loading or unloading of a bulk granular material, not specified in Table 11, Schedule 3 of this licence, at the Premises; or
    - (ii) the loading or unloading of a bulk granular material, specified in Table 11, Schedule 3 of this licence, at the Premises using a handling method not specified by any other condition of this licence; or
    - (iii) the loading or unloading of a new bulk granular material, not specified in Table 11, Schedule 3 of this licence, at the Premises using a handling method not specified by any other condition in this licence;
  - (d) include details of the extent of the Trial, including:
    - (i) the duration and frequency of any loading or unloading activities;
    - (ii) method for materials storage and handling including any changes to infrastructure and equipment used at the Premises; and
    - (iii) all controls to be implemented for the management of emissions and discharges;
  - (e) include details of the nature of bulk granular material, including:
    - (i) all public health and ecosystem hazards;
    - (ii) the chemical and geochemical composition;
    - (iii) particle size distribution of bulk granular material including inhalable and respirable fractions;
    - (iv) the representative DEM level, where determination of DEM is possible for that material; and
    - (v) leachate testing conducted on materials that may present a toxicological or eco-toxicological risk;
  - (f) include an analysis of risks to the environment, public health and amenity from potential discharges, dust, odour and noise emissions associated with the Trial;
  - (g) include a monitoring plan that includes, but is not limited to:
    - (i) the indicator parameter/s to be monitored;
    - (ii) monitoring locations, equipment used and proximity to sensitive receptors;
    - (iii) monitoring frequencies;
    - (iv) monitoring averaging periods; and
    - (v) any meteorological monitoring to be undertaken; and
  - (h) only when a CEO notification to cease a Trial has been issued in accordance with condition 16, and in the event that the Licence Holder is submitting a Trial amendment notification, then the Licence Holder must:
    - (i) resubmit the requirements of conditions 15(a) – (g);
    - (ii) address the issues that resulted in the notification to cease the Trial on the initial (or any subsequent) Trial for the same product; and
    - (iii) include a new Trial end date calculated 12 months from the commencement of the first shipment of the ceased Trial, not including time elapsed between the CEO notification to cease that Trial and the Trial amendment notification.

**CEO notification to cease a Trial (prior to commencement or during)**

- 16.** The Licence Holder must cease a Trial in the manner and at the time, when:
- (a) the CEO forms the view, acting reasonably:
    - (i) that following an assessment of the information provided as part of condition 15, it is determined that the proposed Trial will result in unacceptable impact on public health, amenity, or the environment; or
    - (ii) that following a review of any data received in accordance with condition 22, it is determined that the Trial is having an unacceptable impact on public health, amenity, or the environment; or
    - (iii) that the Trial being undertaken is different in any manner from that described in the notification provided by the Licence Holder through condition 18, when that difference is resulting in, or is likely to result in an unacceptable impact on public health, amenity, or the environment; and
  - (b) the CEO has provided written notice to cease the Trial (which the CEO will make publicly available) to the Licence Holder specifying the grounds for the CEO's views.

Nothing in this condition prevents the Licence Holder subsequently submitting an amendment in relation to the Trial. Any Trial amendment proposed by the Licence Holder must follow the notification requirements as per condition 15(h).

**Trial Restrictions:**

- 17.** Product received for the purpose of a trial must only be stored on the Premises prior to the commencement of the first shipment for a maximum period of:
- (a) six weeks when being stored outside of enclosed infrastructure; or
  - (b) three months when being stored inside enclosed infrastructure.
- 18.** The Trial must cease:
- (a) 12 months from the date of the commencement of the first shipment; or
  - (b) immediately after the shipment where the cumulative throughput amounts exceed 1,000,000 tonnes; or
  - (c) immediately upon receipt of a CEO notification to cease a Trial in accordance with condition 16, whichever occurs first.
- A Trial may only recommence upon notification of a Trial amendment, in accordance with condition 15(g).
- 19.** The Licence Holder must not Trial the bulk handling of materials that:
- (a) contain asbestos in concentrations equal to or greater than 0.01% w/w for non-friable asbestos or 0.01% w/w for fibrous asbestos;
  - (b) contain respirable silica equal to or greater than 1% w/w;
  - (c) exceed the radiation transport limit of 10 Bq/g for Uranium-238 and Thorium-232 combined;
  - (d) exceed Rubidium-87 concentrations of 30 Bq/g; or
  - (e) are classified as tailings, construction or demolition waste, hazardous waste, or waste-derived by-product (except Clean fill).



## Reporting

- 20.** The Licence Holder must submit a report to the CEO which includes the results of monitoring required by condition 15(f), and includes:
- (a) the 15-minute averaged, raw data in tabulated format;
  - (b) a graphical representation of the monitoring results for each Trial shipment with a comparison against 15-minute averaged meteorological (wind speed and direction) monitoring data;
  - (c) Moisture Content data averaged over each Trial shipment and showing a comparison against the representative DEM level, where the DEM level can be determined; and
  - (d) a summary of the effectiveness of the controls implemented for the management of emissions and discharges,
- within 30 days of the completion of the first Trial shipment; at four, seven and 10 months from the first Trial shipment; and a final closeout report within 30 days following the cessation of the Trial.
- 21.** The Licence Holder must record the date when the product for the purpose of a Trial has been received on the Premises and include the date with the first report to the CEO as required in condition 20.

## Ongoing shipments and handling

- 22.** In the event that approval is sought for the ongoing shipments of the Trial material, or for the ongoing use of the Trial material handling method, the Licence Holder must provide an application for Licence amendment or Works Approval, along with a report fulfilling the requirements of condition 20, at least three months prior to the completion of the Trial period.

## Emissions and discharges

### Point source emissions to surface water

- 23.** The Licence Holder must ensure that where waste is emitted to surface water from the emission points in Table 2 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

**Table 2: Emission points to surface water**

Emission point reference and location on Map of emission points	Description	Source including abatement
SW1-SW15	Discharge pipe into Geraldton Harbour	Stormwater runoff No abatement specified

### Fugitive emissions

- 24.** The Licence Holder must ensure that reasonable and practicable measures are taken to ensure that dust generated on the premises (excluding dust from Shiploading Events or Metal Concentrate handling) does not cross the premises boundary.

### Odour

- 25.** 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.

## Monitoring

### General monitoring

26. The Licence Holder must ensure that 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.
27. The Licence Holder must ensure that annual monitoring is undertaken in each calendar year prior to 30 June.
28. The Licence Holder must ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.
29. The Licence Holder must, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

### Ambient environmental quality monitoring

30. The Licence Holder must undertake the monitoring in Table 3 according to the specifications in that table, and record and investigate results that do not meet any target specified in that table.

**Table 3: Monitoring of ambient air quality**

Monitoring point reference and location (as shown in schedule 1)	Parameter	Limit	Target	Units <sup>1</sup>	Averaging period	Frequency <sup>2</sup>	Method
Berth 1; Lemmon Road; Port Way; Connell Road	Copper as PM <sub>10</sub>	-	1.0	µg/m <sup>3</sup>	24 hours	Continuous during shiploading events	Mid-West Ports Authority  Air Quality Sampling and Analysis Plan
	Manganese as PM <sub>10</sub>	-	0.15				
	Particulates as PM <sub>10</sub>	-	50				
	Nickel as PM <sub>10</sub>	-	0.02	µg/m <sup>3</sup>	Annual Rolling Average	Continuous during shiploading events	
Berth 1; Lemmon Road; Port Way	Lead as PM <sub>10</sub>	-	0.5	µg/m <sup>3</sup>	24 hours	Continuous during shiploading events	
Connell Road	Lead as PM <sub>10</sub>	-	2.0	µg/m <sup>3</sup>	24 hours	Continuous during shiploading events	
Berth 1; Lemmon Road; Port Way; Connell Road	Lithium as PM <sub>10</sub>	-	-	µg/m <sup>3</sup>	24 hours	Continuous during shiploading events	

Note 1: All units are referenced to STP dry

Note 2: Continuous monitoring is permitted to include gaps equating to no more than 2 hours in every 24 hour monitoring period as required for the changing of HiVol sampler filter papers.

31. The Licence Holder must undertake the monitoring in Table 4, according to the specifications in that table, and record and investigate results that do not meet any target specified in that table.

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

Monitoring point reference and location	Parameter	Limit	Units	Frequency	Method <sup>1</sup>
CS1, CS2, ORA1, ORA2, FBH1, FBH2, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9, CH10, YM1, and TB1	Aluminium	Compared with Sediment Quality Guideline Values (DGV – low and DGV – high) as stated in ANZG 2018	mg/kg	Annually	Mid-West Ports Authority Sediment Sampling and Analysis Plan
	Arsenic				
	Cadmium				
	Copper				
	Lead				
	Mercury				
	Nickel				
	Zinc				
	Phosphate				
	Lithium				
CS1, CS2, CH6, CH7, and CH8	Polycyclic Aromatic Hydrocarbons (PAH)	As per ANZG 2018 95 % trigger values for toxicants in marine waters	mg/L	Annually when Iron Concentrate- has been loaded within that Annual Period.	Sediment pore water sampling
	Tributyltin (TBT)				
	Total Organic Carbon (TOC)				
	Particle Size Analysis (PSA)				
CH3, CH4, CS1, and CS2.	Lithium	0.5	mg/L	Annually when lithium DSO and spodumene concentrate has been loaded within that annual period.	

Note1: the median concentration from the sediment monitoring at each monitoring point for each parameter shall be compared with ANZG 2018 guidelines.

32. The Licence Holder must provide to the CEO an investigation report within six weeks of becoming aware of a limit exceedance for the parameters in Table 4.

33. The Licence Holder must monitor emissions:

- (a) at the corresponding monitor location;
- (b) for the corresponding parameter
- (c) at the corresponding frequency;
- (d) for the corresponding average period;
- (e) in the corresponding unit; and
- (f) using the corresponding method,

as set out in Table 5.

**Table 5: Emissions and discharge monitoring**

Monitoring point reference and location	Parameter	Units	Frequency	Average period	Method
SW14 (Berth 6) as per Schedule 1: Maps	Nitrogen	mg/L	On campaign basis:  (a) daily for the duration of the handling of fertilisers  (b) 4 days after handling of fertiliser has been completed	Spot sample	AS5667.1 and AS5667.10
	Ammonia	mg/L			

- 34.** The Licence Holder must monitor the surface water for concentrations of the parameters listed in Table 6:
- (a) at the corresponding monitor location;
  - (b) in the corresponding unit;
  - (c) at no less that the corresponding frequency;
  - (d) using the corresponding method;
- as set out in Table 6.

**Table 6: Monitoring of ambient marine quality**

Monitoring point reference and location	Parameter	Limit	Units	Frequency	Method
Fixed monitoring site near Berth 6 where iron concentrate is handled. Location to be determined	Total iron (unfiltered)	10 mg/L	mg/L	One campaign immediately before handling.  Daily during loading period.	In-field measurements (via test kit)

## Records and reporting

- 35.** 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.
- 36.** 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 60 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

## Department of Water and Environmental Regulation

- 37.** 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 the conditions of this licence;
  - monitoring programmes undertaken in accordance with conditions 30, 31, 33 and 34 of this licence; and
  - complaints received under condition 35 of this licence.
- 38.** The books specified under condition 37 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.
- 39.** The Licence Holder shall submit to the CEO an Annual Environmental Report within 64 calendar days after the end of the annual period. The report shall contain the information listed in Table 7 in the format or form specified in that table.

**Table 7: Annual Environmental Report**

Condition or table (if relevant)	Parameter	Format or form
-	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	None specified
10	Representative DEM level for each distinct manganese product handled in the Annual Period.	None specified
12	Moisture Content averaged over each shipment.	Non specified
13	Particle size distribution of each distinct manganese ore product (lump and fines)	None specified
Table 3	Ambient air quality monitoring and a comparison against specified target.	None specified
Table 4	Ambient sediment monitoring	None specified
Table 5	Stormwater monitoring	None specified
Table 6	Ambient marine quality monitoring	None specified
36	Compliance	Annual Audit Compliance Report (AACR)
35	Complaints summary	None specified

- 40.** The Licence Holder shall ensure that the Annual Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.
- 41.** The Licence Holder shall submit the information in Table 8 to the CEO according to the specifications in that table.

**Table 8: Non-annual reporting requirements**

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form <sup>1</sup>
-	Copies of original monitoring reports submitted to the Licence Holder by third parties	Not applicable	Within 14 days of the CEOs request	As received by the Licence Holder from third parties
Conditions 11; 12; and 13	Particle size distribution; DEM level (where applicable <sup>2</sup> ); and Moisture Content averaged over the first shipment of each distinct manganese ore product (lump and fines)	Not applicable	Within 30 days of the first shipment of each distinct manganese ore product (lump and fines)	None specified+
Table 3	Meteorological data and a description of all ship loading and unloading activities occurring the day before, day of and day after manganese loading.	Quarterly	Three months and then six months from the commencement of this Amendment notice	Tabulated
Table 3	Target exceedances	Quarterly	Within 30 days after the end of each quarterly period	ET1
Table 3	Lead, copper, or nickel target exceedances	Not applicable	Within 7 days of becoming aware of exceedance	ET1 <sup>3</sup>
Condition 31	Sediment sampling exceedances	Not applicable	Within six weeks of becoming aware of an exceedance	None specified

Note 1: Forms are in Schedule 2

Note 2: Where DEM cannot be determined for that distinct manganese ore product, evidence obtained in accordance with Condition 11 must be supplied.

Note 3: The report shall also include a summary of the Shiploading Events associated with the exceedances including the type and quantity of cargo loaded and the date and time of commencement and completion of loading. The report shall also include air quality data for all parameters detailed in Table 3 recorded during any Shiploading Event undertaken during the period of the exceedances.

**Notification**

**42.** The Licence Holder shall ensure that the parameters listed in Table 9 are notified to the CEO in accordance with the notification requirements of the table.

**Table 9: Notification requirements**

Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>
-	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day  Part B: As soon as practicable	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution		
29	Calibration report	As soon as practicable	None specified

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2.

## Definitions

In this licence, the terms in Table 10 have the meanings defined.

**Table 10: 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 1 July until 30 June of the immediately following year.
Annual Rolling Average	means the 12-month average calculated using the Monthly Average using the following formula: $\frac{\text{Monthly Average} + \sum \text{Previous 11 Monthly Averages}}{12}$
ANZECC / ARMACANZ Guidelines	means the Australian and New Zealand Environment and Conservation Council (2000), <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> , Australian and New Zealand Environment and Conservation Council & Agriculture and Resource Management Council of Australia and New Zealand, National Water Quality Management Strategy No. 4 & 7.
ANZG 2018	means the most recent version and relevant parts of the Australian and New Zealand Governments guidelines for fresh and marine water quality (Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia) Available at <a href="http://www.waterquality.gov.au/anz-guidelines">www.waterquality.gov.au/anz-guidelines</a>
AS4156.6-2000	means Australian Standard AS4156.6-2000: Determination of Dust/moisture Relationship for Coal.
Assigned Level	means a noise level determined under regulation 8 of the Noise Regulations.
Averaging Period	means the time over which a limit or target is measured, or a monitoring result is obtained.
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>
Clean fill	as defined by the <i>Landfill Waste Classification and Waste Definitions 1996</i> (as amended April 2018).
Construction or	as defined by the <i>Landfill Waste Classification and Waste Definitions 1996</i> (as

Term	Definition
demolition waste	amended April 2018).
DEM	means the dust extinction moisture which is the Moisture Content expressed as a percentage of the product at which the dust number is 10 derived from the <i>Australian Standard AS4156.6-2000: Coal preparation, Part 6: Determination of Dust/moisture Relationship for Coal</i> , or alternative approved standard as approved by the CEO.
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.
DGV	means default guideline value
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.
EPA 2005	means <i>Manual of Standard Operating Procedures – For Environmental monitoring against Cockburn Sound Environmental Quality Criteria (2003-2004) – A supporting document to the State Environmental (Cockburn Sound) Policy 2005</i> , Prepared by Environmental Protection Authority, Report no. 21, Western Australia, January 2005.
EP Act	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA).
fugitive emissions	means all emissions not arising from point sources identified under subheading 'Emissions and discharges'.
Hazardous waste	as defined by the <i>Landfill Waste Classification and Waste Definitions 1996</i> (as amended April 2018).
HVAS	means High Volume Air Sampler.
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.
Metal Concentrate Shed	means any shed used to store lead sulphide concentrate, copper concentrate, spodumene concentrate and zinc concentrate.
Metal Concentrate	means lead sulphide concentrate, copper concentrate, zinc concentrate, nickel concentrate, or spodumene concentrate.
Midwest Ports Authority Air Quality Monitoring Sampling and Analysis Plan	means <i>Midwest Ports Authority Air Quality Monitoring Sampling and Analysis Plan Revision 5</i> Prepared by Midwest Ports Authority, dated 30 January 2014.
Midwest Ports Authority	means <i>Midwest Ports Authority 2015 Sediment Monitoring Program - Sampling and Analysis Plan, Revision 4</i> Prepared by Midwest Ports



Term	Definition
Sediment Monitoring Sampling and Analysis Plan	Authority, dated 25 November 2014.
m/s	means metres per second.
Moisture Content	<p>means the ratio of the mass of water in a sample to the mass of solids in the sample, expressed as a percentage. In equation form:</p> $w = \frac{m_1 - m_2}{m_1} \times 100$ <p>Where:                      w = moisture content of sample;                      m<sub>1</sub> = initial mass, in grams, of the test portion; and                      m<sub>2</sub> = mass, in grams, of the test portion after drying.</p>
Monthly Average	<p>means the average concentration calculated each calendar month using the following formula:</p> $\frac{(A \times B) + C}{\text{Number of days in calendar month}}$ <p>Where:                      A = the average concentration calculated from all 24-hour sample collected during the calendar month.                      B = the number of 24-hour periods in the calendar month where sampling was not required.                      C = the sum of all 24-hour samples collected during the calendar month.</p>
Mtpa	means million tonnes per annum.
NATA	means the National Association of Testing Authorities, Australia.
NATA accredited	means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis.
PAH	means Polycyclic Aromatic Hydrocarbons
PM <sub>10</sub>	means particles with an aerodynamic diameter of less or equal to 10 µm.
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(s) in Schedule 1 to this licence.
Prescribed Premises	has the same meaning given to that term under the EP Act.
PSA	means Particle Size Analysis
quarterly	means the 4 inclusive periods from 1 April to 30 June, 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March.
Schedule 1	means Schedule 1 of this Licence unless otherwise stated.
Schedule 2	means Schedule 2 of this Licence unless otherwise stated.

Term	Definition
Schedule 3	means Schedule 3 of this Licence unless otherwise stated.
Shiploading Event	means any shiploading where bulk Metal Concentrate is loaded into a ship or unloaded out of a ship.
spot sample	means a discrete sample representative at the time and place at which the sample is taken.
TBT	means Tributyltin
TDS	means total dissolved solids.
TEOM	means Tapered Element Oscillating Microbalance unit.
TOC	means total organic carbon
Trial	means a test period during which the Licence Holder loads or unloads a new bulk granular material, not currently specified in condition 7 the Existing Licence, at the Premises, in accordance with conditions 18, 19, 20, 21, 22, 23, 24 and 25.
TSP	means total suspended particulates.
µg/kg	means micrograms per kilogram.
µg/m <sup>3</sup>	means micrograms per cubic metre.
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 below (Figure 1). The red line depicts the Premises boundary.



Figure 1: Map of the boundary of the Prescribed Premises

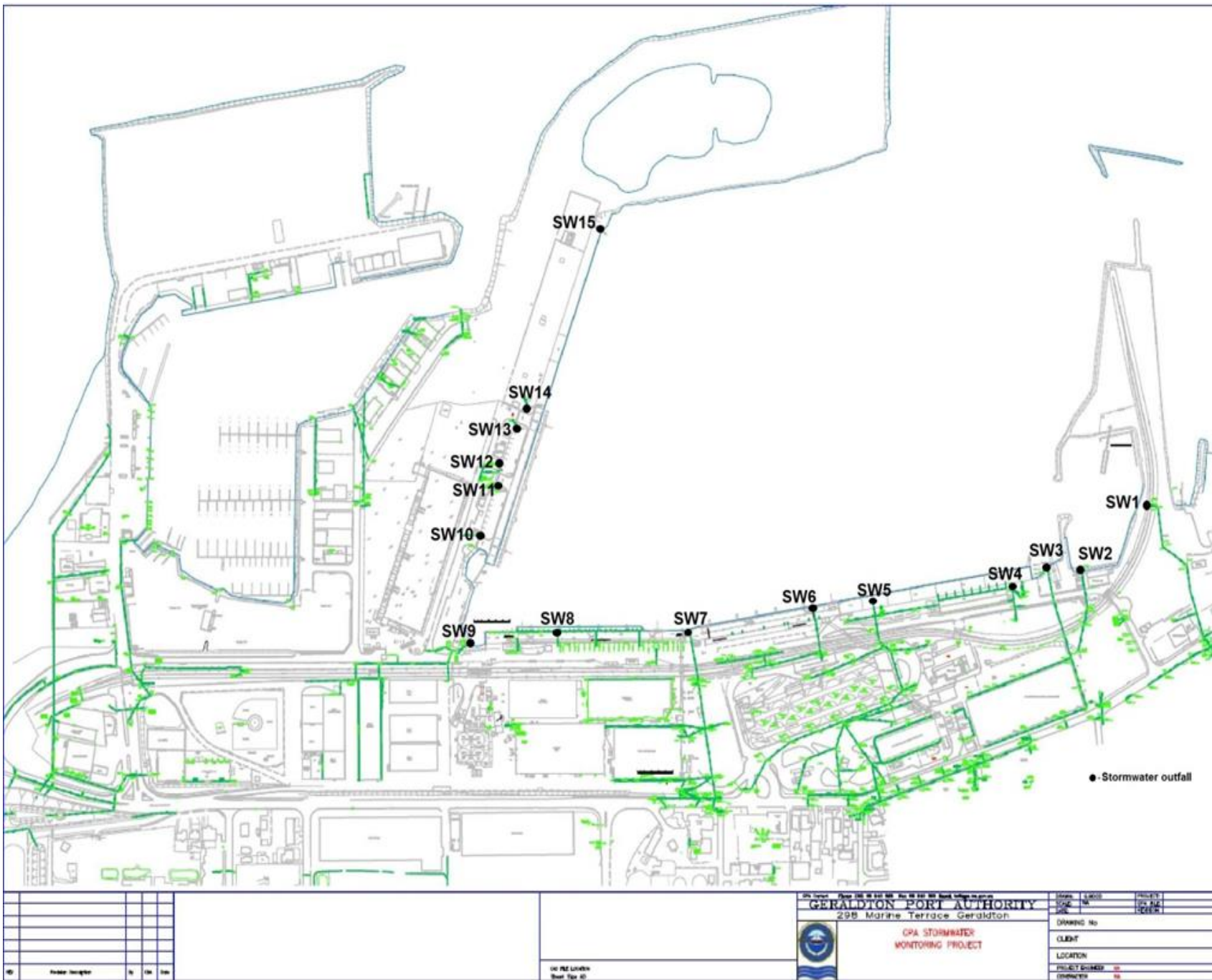


Figure 2: Map of emissions points as defined in Table 2.

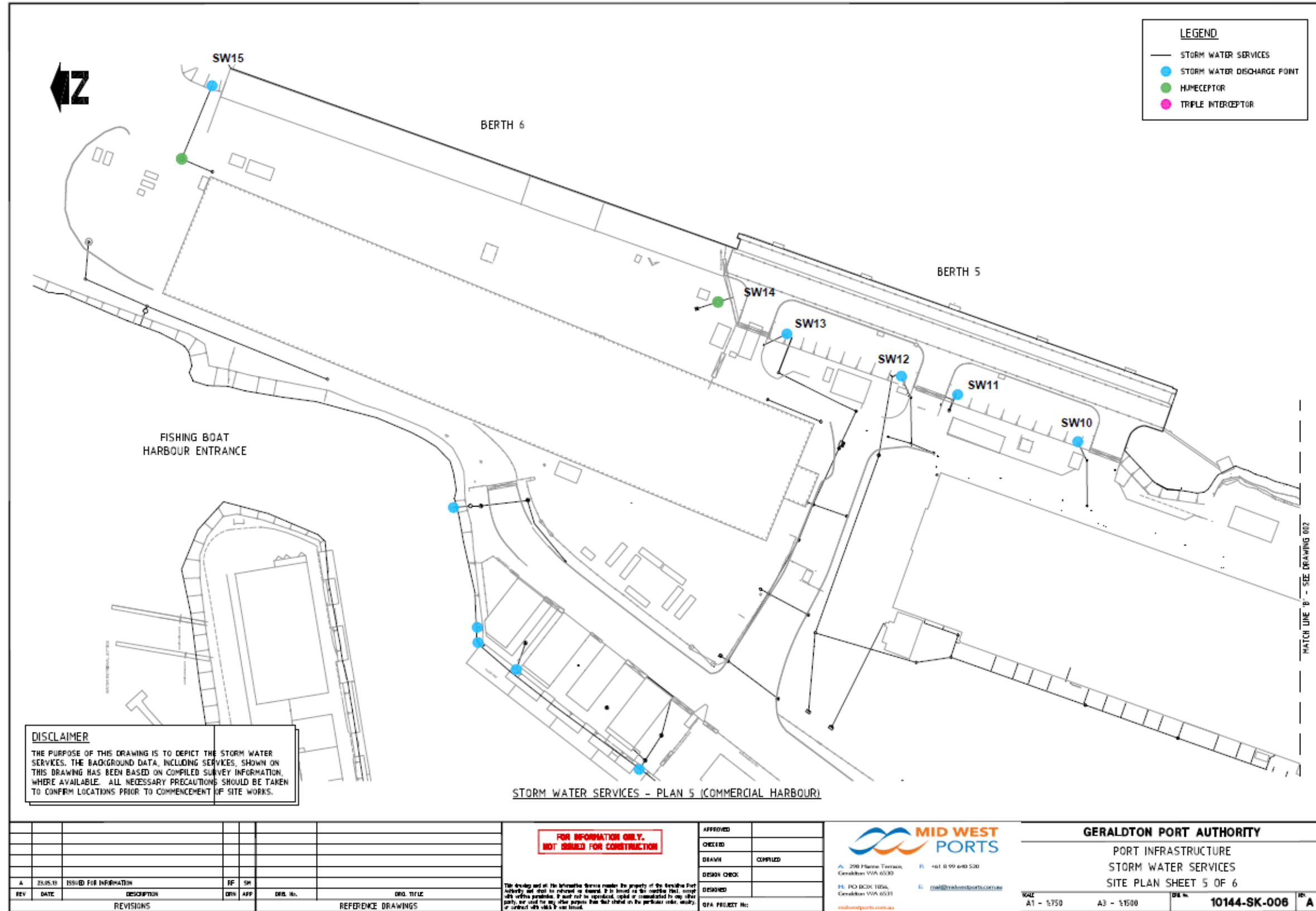


Figure 3: Map of stormwater infrastructure and sampling locations for Berth 5 and 6 as defined in Table 5.



Figure 4: Map of ambient air quality and wind monitoring locations as defined in Table 3.

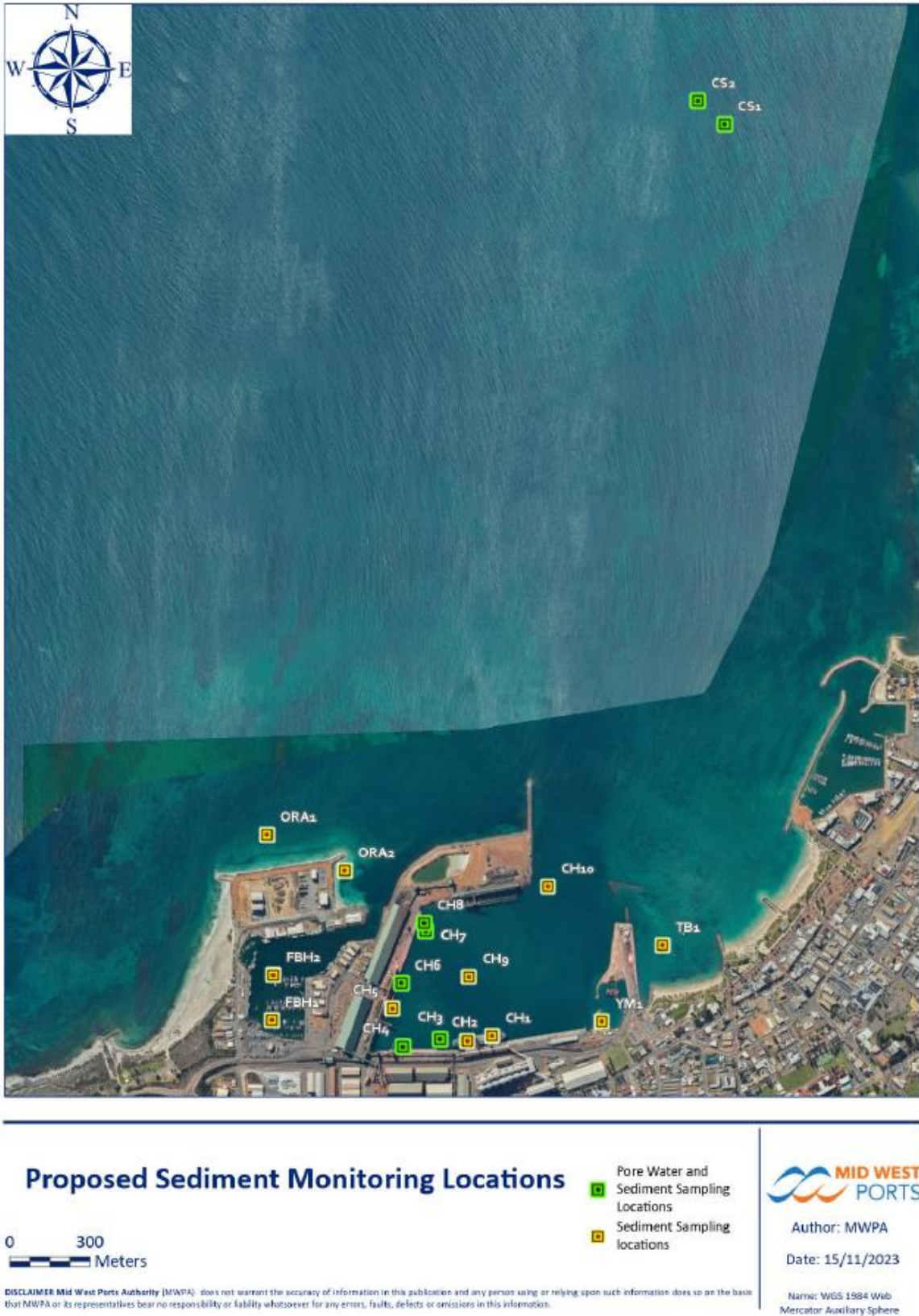


Figure 5: Map of ambient sediment quality monitoring locations as defined in Table 4.

Department of Water and Environmental Regulation

## Schedule 2: Forms

Licence: L4275/1982/15  
Authority

Licence Holder: Mid-West Ports

Period:

Name: Target exceedances

### Form ET1: Target exceedances

Please provide an analysis of the target exceedances for the month, including but not limited to the:

- (a) date, time and reason for the exceedance;
- (b) period over which the exceedance occurred; and
- (c) corrective action taken or planned to prevent a recurrence of the exceedance, if appropriate, including a timeline for implementation.

Signed on behalf of Mid-West Ports Authority: ..... Date: .....



**Form: N1**

Government of **Western Australia**  
Department of **Water and Environmental Regulation**

Licence:

Licence holder:

Form: N1

Date of breach:

**Notification of detection of the breach of a limit.**

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

**Part A**

Licence number	
Name of operator	
Location of premises	
Time and date of the detection	

<b>Notification requirements for the breach of a limit</b>	
Emission point reference/source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

## Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of licence holder	
Date	

## Schedule 3: Regulated Bulk Granular Products

Table 11: Bulk granular products regulated.

Regulated products	
Iron ore	Mineral sands
Iron concentrates	Mineral sands concentrate
Lead sulphide concentrate	Manganese
Copper concentrate	Fertiliser
Zinc concentrate	Clean fill
Nickel concentrate	Lithium direct shipping ore
Talc	Spodumene concentrate
Coal	